

SUNIL KUMAR SINGH

Visiting Faculty
Department of Mechatronics Engineering
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EDUCATION

DOCTOR OF PHILOSOPHY (2013 – Thesis submitted, 3rd February 2020)

Ph.D. (Mechanical Engineering)

Thesis Supervisor- Dr. Sangamesh Deepak R

Indian Institute of Technology Guwahati, India

GRADUATION (2009 – 2013)

B.Tech (Aeronautical Engineering)

Gautam Budhha Technical University, Locknow, U.P., India

Aggregate: 73%

AREA OF INTEREST

Kinematics, Static balancing, Design of linkage, Solid modelling, Design and simulation of linkages.

INTERNATIONAL JOURNALS

1. S. K. Singh and S. Deepak R, “Analytical Reason for Smaller Lateral Sway in Angled-Plane Scissor Linkage”, *Journal of Mechanisms and Robotics*, ASME, OCTOBER 2020, Vol. 12 / 051001-1.

INTERNATIONAL / NATIONAL CONFERENCE

1. S. K. Singh and S. Deepak R, Design and fabrication of a partially statically balanced scissor linkage made of bamboo pieces, *3rd International and 18th National Conference on Machines & Mechanisms*, BARC Mumbai, December 13-15, 2017.
2. S. K. Singh and S. Deepak R, “Ranking multiple static balancing solutions on the basis of friction overcoming effort”, *5th International Conference on IFToMM Asian Mechanism and Machine Science*, IISc Bengaluru, India, December 17-20, 2018.

ACHIEVEMENT AND PARTICIPATE

- + Got 2nd **prize in Student Mechanism Design Contest** conducted as a part of International Conference on Machines and Mechanisms 2017.

TEACHING EXPERIENCE

- + Teaching from **24 July, 2018 to till present** at IIIT Bhagalpur as visiting faculty.
- + Subjects taught
 - i. **Engineering Graphics.**
 - ii. **Renewable Energy.**
 - iii. **Fluid Mechanics.**
 - iv. **Kinematics of machinery.**
- + Member on **INTRODUCTION TO ROBOTICS** workshop organized by Mr. Gaurav Kumar at IIIT Bhagalpur during 8-10 March, 2019.
- + Member on **INTRODUCTION TO MATLAB AND ITS APPLICATIONS** workshop organized by Dr. Dheeraj Kumar Sinha at IIIT Bhagalpur during 29-30 March, 2019.

ADMINISTRATIVE POSITION AND ADDITIONAL RESPONSIBILITIES

- + Welding Lab In-charge (Since July 2019).
- + Library In-charge (Since August 2018).
- + Faculty Advisor, Mechatronics Engineering (Since January 2018).
- + Warden of Hostels 2 & 3 (Since July 2019).

TECHNICAL SKILLS

- + Proficient in programming languages namely **Matlab, Mathematica.**
- + Proficient in CAD software namely **Solid Edge, Creo, Solidworks.**
- + Proficient in simulating software **MSC Adams, Abaqus, Ansys.**