



Mr. Biplab Das
(Assistant Professor)

Centre/School/Special Centre: SoS Engg. & Tech.

Department: Mechanical Engineering

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Personal Webpage Link:

Qualifications :

B.Tech (Automobile Engineering)

M.Tech (Materials Engineering)

Ph.D (P) (Manufacturing Engineering)

Area of Interest/Specialization:

Advance Manufacturing Technology, Automobile Engineering, Welding Science and Technology, CAD, Line Heating.

Experience:

3 Years

Awards and Honors:

Nil

Research Projects:

Nil

International Collaboration/Consultancy: Nil

Best Peer Reviewed Publication (up-to 10):

International Journals

- Biplab Das and Pankaj Biswas (2017) “Effect of Operating Parameters on Plate bending by Laser Line Heating”, Part B: Journal of Engineering Manufacture Processes, Vol.231 (10), and 1812-1819.

- Biplab Das and Pankaj Biswas (2018) “A Review of Plate Forming by Laser Line Heating”, Journal of Ship Production and Design, Vol.34 (2), pp.155-167.
- Biplab Das and Pankaj Biswas (2018) “Experimental and Numerical Investigation of Single Pass Laser Line Heating” Journal of Materials Processing. (Revision submitted).
- Biplab Das and Pankaj Biswas (2019) “Thermo-mechanical Analysis of Plate forming by Laser Line Heating” (Communicated).
- Biplab Das and Pankaj Biswas (2019) “Development of Compound curve surface by Laser Line heating” (under preparation).

International Conferences

- Biplab Das, Kishor Gajrani and Pankaj Biswas (2012) “Prediction of thermal history in laser line heating”, 21st International Symposium on Processing and Fabrication of Advanced Materials PFAMXXI, Guwahati, India, Vol-2, December 2012.
- Biplab Das and Pankaj Biswas (2014) “Mathematical formulation for the development of Compound curve surface by Laser Line Heating”, 5th International and 26th All India Manufacturing Technology, Design and Research Conference, AIMTDR 2014.
- Biplab Das and Pankaj Biswas (2016) “Prediction of Heating Lines for Plate Forming by Laser Line Heating”, 6th International and 27th All India Manufacturing Technology, Design and Research Conference, AIMTDR 2016.
- Ankush Kumar Dubey, Biplab Das and Prateek Gupta (2021) “Effect of temperature, humidity and traffic loads on PZT-5H disk used for Energy Harvesting Application”, International Conference on water, Energy and Environment (WEECON 2021), 23rd and 24th , December 2021.
- Bhevendra Das Sahu, Biplab Das and Prateek Gupta (2022) “Fabrication and Mechanical Properties analyses of coir, glass, carbon fiber reinforced epoxy based composite”, International Conference on Science, Technology, Engineering and Management, Bhilai, India, 9th February 2022.

Recent Books/Book Chapters/Monographs etc.:

- Biplab Das and Pankaj Biswas (2015), “Mathematical Formulation for Development of Compound Curve Surface by Laser Line Heating”, in S.N.Joshi and U.S.Dixit (eds.), Laser Based Manufacturing, Topics in Mining, Metallurgy and Materials Engineering, DOI 10.1007/978-81-322-2352-8_6, Springer India.,pp.93-105.

Research Supervision:

M.Tech: 02 (Completed), 02 (ongoing)

Administrative Responsibilities:

- M.Tech coordinator for the period of 2 years 2020-2022.
- M.Tech admission through CCMT Co-coordinator for the academic session 2022-2023.
- Automobile Engineering Lab (to be established) in charge.
- Coordinator (Mechanical Engineering) for activities associated with AICTE.

Additional Information:**Workshop attended:**

- Participated in the International Workshop on Near Net Shape Manufacturing of Precision Engineering Components (NNSMW 2014) organized by CSIR-CGCRI, Kolkata during June 5-6, 2014 at CSIR-CGCRI, Kolkata.
- Participated in TEQIP National Workshop on Technical Writing, organized by Centre for Educational Technology, Indian Institute of Technology Guwahati during December 6-7, 2014 at IIT Guwahati.
- Attended a short term course on “Genetic Algorithm in Engineering Optimization” under QIP, organized by AICTE at Indian Institute of Technology Guwahati during 28th December 2014-1st January 2015.

- Attended a short term course on “Modern Scenario in Welding Technology” under QIP, organized by AICTE at Indian Institute of Technology Guwahati during 16th March 2015- 20th March 2015.
- Attended a FDP Program on “Ansys Structural & Ansys Fluent” under TEQIP-III, organized by Assam Science and Technology University, Guwahati during 10th September 2018- 14th September 2018.
- Participated in "One day workshop for Awareness on Energy Conservation", organized at School of Engineering & Technology, Guru Ghasidas Vishwavidyalaya (A Central University) Bilaspur on 4th March 2020 in association with Chhattisgarh State Renewable Energy development Agency (CREDA) and Bureau of Energy efficiency (BEE).
- Participated in the live webinar series on " AUTOCAD, SOLIDWORKS & ESPIRIT CAM System" in association with Government engineering College Daman, organized by SOPAN Institute of engineering & design, Surat, during 22nd July 2020 - 24th July 2020.
- Participated in the webinar on "East for East Innovation" presented by Shajeev Surendran, Director-Engineering, Garrett-Advancing Motion. Organized by Department of Mechanical Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya , Bilaspur on 24th May 2020.
- Participated in the webinar on " Job Market for mechanical Engineers in 2020" presented by Mr. J. Maria Nithish, Technical Staff, Zoho Corporation Private Limited Chennai. Organized by St. Mother Theresa engineering college, Tuticorin, on 23rd May 2020.
- Participated in the webinar on "Process simulation, optimization and additive manufacturing for reengineering of automotive modules". Organized by NAFEMS in association with ALTAIR on 11th May 2020.
- Participated and completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on " Teaching-Learning using MATLAB" from 24th November 2020 to 28th November 2020 at Guru Ghasidas Vishwavidyalaya Bilaspur.

- Participated in the Short Term Course on "Advances in Welding and Additive Manufacturing" conducted by Department of Mechanical Engineering, under the Technical Education Quality Improvement Program (TEQIP) sponsored by the Ministry of Human Resource Development, Government of India, from 10th December 2020-14th December2020.
- Successfully completed the course "Module-1 : Orientation towards technical education and curriculum aspects" of National Initiative for Technical Teachers Training (NITTT) organized by AICTE.
- Successfully completed the course "Module-2 : Professional Ethics and Sustainability" of National Initiative for Technical Teachers Training (NITTT) organized by AICTE.
- Successfully completed the course "Module-3: Communication Skills, Modes and Knowledge Dissemination" of National Initiative for Technical Teachers Training (NITTT) organized by AICTE.
- Successfully completed the course "Module-4: Orientation towards technical education and curriculum aspects" of National Initiative for Technical Teachers Training (NITTT) organized by AICTE.
- Successfully completed the course "Module-5: Technology Enabled Learning and Life-Long Self Learning" of National Initiative for Technical Teachers Training (NITTT) organized by AICTE.
- Successfully completed the course "Module-6: Student Assessment and Evaluation" of National Initiative for Technical Teachers Training (NITTT) organized by AICTE.
- Successfully completed the course "Module-7: Creative problem Solving, innovation and Meaningful R & D" of National Initiative for Technical Teachers Training (NITTT) organized by AICTE.
- Successfully completed the course "Module-8: Institutional Management and Administrative Procedures" of National Initiative for Technical Teachers Training (NITTT) organized by AICTE.

- Attended one day National Workshop on " Microsoft Excel Involvement for Sustainable Industrial Practices" organized by Department of Mechanical Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur, on 25th August 2021.
- Participated in "UGC-Sponsored "Guru Dakshata" Faculty Induction Program(online)" organized by University Grants Commission Human Resource Development Centre Guru Ghasidas Vishwavidyalaya, Bilaspur, from 15th February 2021 to 17th March 2021.
- Participated in IP Awareness/Training Program under " National Intellectual Property Awareness Mission" organized by Intellectual Property Office, Ministry of Commerce and Industry, Department for Promotion of Industry and Internal Trade, Office of the Controller General of Patents, Design and Trade Marks, Government of India, on 9th February 2022
- Attended the " NAAC Sponsored Interactive One Day Workshop on "Revised Framework of NAAC accreditation : an awareness program"" organized by the Internal Quality Assurance Cell (IQAC) of Guru Ghasidas Vishwavidyalaya, Bilaspur, on 26th November 2021
- Participated in " One Day Workshop On Multiple Entry/Exit for Professional Courses As a Step Towards National Education Policy Implementation" organized by School of Studies of Engineering and Technology, School of Studies of Commerce and Management, School of studies of Natural Resources and School of Studies of Mathematical and Computational Science, at Guru Ghasidas Vishwavidyalaya, Bilaspur, from 18th December 2021 to 17th March 2021.

Workshop/Webinar/Conference/Seminar organized:

- Organized Webinar on " Advances in Bio-fuel" at Guru Ghasidas Vishwavidyalaya, Bilaspur, on 5th December 2020.
- Organized AICTE ATAL Academy Sponsored One Week FDP on " Advancement in Manufacturing Technology"(online), at Guru Ghasidas Vishwavidyalaya, Bilaspur from 17th January 2022 to 21st January 2022.

