

## PERSONAL DATA

**Name:** SIRSENDU MAHATA

**Designation:** ASSISTANT PROFESSOR (Level 12)

### **Academic Qualifications:**

Exam Passed	Board/ University	Year of Passing	%/Points obtained	Division/Class
I.C.S.E.( 10 <sup>th</sup> . Std.)	Council for the Indian School Certificate Examinations, New Delhi	1989	89.7%	1 <sup>st</sup> . Divn.
Higher Secondary (10+2 Std.)	West Bengal Council of H.S. Education	1991	80.9%	1 <sup>st</sup> . Divn. <b>(Ranked 81<sup>st</sup>. in council)</b>
B.E.(Mechanical Engg.)	R.E. College, Durgapur (University of Burdwan)	1995	83.0%	1 <sup>st</sup> . Class <b>(Ranked 1<sup>st</sup>. in Univ.) Gold Medallist</b>
M.Tech.(Production Engg.)	West Bengal University of Technology	2012	DGPA 9.74/10	<b>Ranked 1<sup>st</sup> in Univ., Gold Medallist</b>

### **Professional Engagements:**

Name of Employer	Designation	Period of service
Garden Reach Shipbuilders and Engineers Ltd., Kolkata( A Govt. of India Undertaking)	Senior Engineer (Plumbing)	30-11-1995 to 17-05-1998
Kanyapur Polytechnic, Asansol	Lecturer in Mechanical Engg.	20-05-1998 to 12-08-2000
Jalpaiguri Govt. Engineering College. ( Govt. of West Bengal)	Lecturer in Mechanical Engg. ( appointed through P.S.C.)	14-08-2000 to 21-07-2009
Kalyani Govt. Engineering	Assistant Professor in	23-07-2009

College. ( Govt. of West Bengal)	Mechanical Engg. (on transfer of service)	Till date
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**Short Term Courses Attended:**

Name of the Course	Organizer	Duration
Tribology, Engine Technology and Fuel Economy	N.I.T. Jamshedpur	Two weeks (15-03-2004 to 26-03-2004)
CFB Technology and it's Prospective Applications	B.E.S.U. Shibpur, Howrah	Two weeks (03-01-2005 to 15-01-2005)
Hands on Tutorial on LINUX OS	I.E.(India), North Bengal Local Centre, Jalpaiguri	One week (25-07-2005 to 30-05-2005)
Optimization of Decision Tools using Soft Computing Models and MATLAB	Kalyani Govt. Engineering College., Kalyani, Nadia (AICTE Sponsored)	Two weeks (30-01-2012 to 10-02-2012)
Manufacturing Excellence Through Quality Assurance	IIT, Roorkee (AICTE Sponsored)	One week (09-07-2012 to 13-05-2012)
FDP on Manufacturing Technology, Research and Management (MTRM)	Aliah University, Kolkata	Two weeks (02-08-2021 to 14-08-2021)
FDP on Digital Additive Manufacturing (3D Printing)	ICFAI Foundation for Higher Education, Hyderabad	One week (06-09-2021 to 10-09-2021)

**Member of Learned Societies and / or Professional Bodies:**

1. Associate Member of “The Institution of Engineers (India)”
2. Life Member of “Indian Society for Technical Education”.
3. Life Fellow of “The Association of Engineers (India)”
4. Life Member of “Institute of Science, Education and Culture”.

**Achievements:**

Recipient of University Gold Medal at B.E. and Masters level, Recipient of National Scholarship for H.S. Results.

## **Publications in Journals/ Conferences**

1. Sirsendu Mahata, Bijoy Mandal, Jayanta Mistri, and Santanu Das “Effect of fluid concentration using a multi-nozzle on grinding performance”, *International Journal of Abrasive Technology*, (Inderscience publication) ISSN 1752-2641 **SJR(Impact Factor)=0.271**, Vol.6, No.4, pp. 257-268, 2014.
2. Sirsendu Mahata, Jayanta Mistri, Bijoy Mandal and Santanu Das A Comparative Study of Grinding Performance Using Different Fluid Delivery Techniques, *Journal of the Association of Engineers, India* (ISSN 0368-1106) Vol.83, No.3&4, pp. 63-70, 2013.
3. A. Das, P. Mondal, S. Samanta, Santanu Das and S. Mahata Burr minimization in milling: through proper selection of in-plane exit angle, *Journal of the Association of Engineers, India* (ISSN 0368-1106) Vol.81, No. June 2011, pp. 38-47.
4. Sirsendu Mahata, Jayanta Mistri, Bijoy Mandal and Santanu Das Coolants and Their Role in Grinding, *Reason- A Technical Magazine* (ISSN 2277-1654) Vol. X, pp. 41-44, 2011.
5. Sirsendu Mahata, Bijoy Mandal and Santanu Das ANOVA based Optimization of Process Parameters in Surface Grinding of Low Alloy Steel, *Indian Science Cruiser* (ISSN 0970-4256), Vol.29, No.1, pp 38-43, 2015.
6. A. Das, P. Mondal, S. Samanta, S. Mahata and Santanu Das Burr formation in milling and its minimization, *Proceedings of the 17th West Bengal State Science and Technology Congress, Kolkata, India, 2010*, p.64.
7. S. Mahata, A. Das, S. Kundu and Santanu Das Recent trends and advances in deburring processes Presented in the Seminar on Recent Trends in Manufacturing Technology, Howrah, India, 2011.
8. Sirsendu Mahata, Jayanta Mistri, Bijoy Mandal and Santanu Das An experimental investigation on grindability of low alloy steel under dry condition, *Proceedings of the 19th West Bengal State Science and Technology Congress, Kolkata, India, 2012*, p 258.
9. Sirsendu Mahata, Jayanta Mistri, Bijoy Mandal and Santanu Das Effect of using different methods of fluid application on grinding performance, *Proceedings of the 4<sup>th</sup>. Intl. and 25<sup>th</sup>. AIMTDR Conference, Jadavpur University, Kolkata, India, 2012*, Vol.1, p 396 **(Received the Best Paper Award)**
10. Sirsendu Mahata, Joydip Roy, Ankesh Samanta, Bijoy Mandal and Santanu Das “Effect of small quantity lubrication on grindability of hardened AISI 4340 steel”, *Int. J. of Abrasive Technology (IJAT)* Vol. 8, No. 3, 2018 pp 171-187.

11. Sirsendu Mahata, Ankesh Samanta, Joydip Roy, Bijoy Mandal and Santanu Das, "Influence of Minimum quantity lubrication on grinding performance of annealed AISI 4340 steel", *Indian Science Cruiser*, Vol.31, No.2, March 2017 pp 17-26.
12. M. Mukhopadhyay, A. Banerjee, A. Kundu, S. Mahata, B. Mandal, S. Das, Experimental Investigation on Grindability of Titanium Grade 1 Using Silicon Carbide Wheel Under Dry Condition, *Glob. J. Adv. Eng. Sci.* 2 (2016) 129–133.
13. A. Banerjee, M. Mukhopadhyay, A. Kundu, S. Mahata, B. Mandal, and S. Das, On the Performance of Dry Grinding of Titanium Grade 1 using Alumina Wheel, *Glob. J. Adv. Eng. Sci.* 2 (2016) 134–138.
14. A. Kundu, A. Banerjee, M. Mukhopadhyay, S. Mahata, B. Mandal, and S. Das, An Experimental Investigation On The Grindability Of Inconel Using Alumina Wheel Under Dry Condition, *Glob. J. Adv. Eng. Sci.* 2 (2016) 149–153.
15. Kundu, A.; Mahata, S.; Mukhopadhyay, M.; Banerjee, A.; Mandal, B.; Das, S., "Investigating the use of soap water in SQL mode during grinding titanium alloy", *In Proceedings of the National Conference on Advanced Functional Materials Processing & Manufacturing*, CMERI, Durgapur, West Bengal, pp 7-10, 2-3 February 2017.
16. Kundu, A., Mukhopadhyay, M., Mahata S., Banerjee, A., Mandal, B., Das, S., "Grinding Titanium grade 1 alloy with an alumina wheel using soap water", *Procedia Manufacturing*, Volume 20, Pages 338-343, 2018.
17. Sirsendu Mahata, Arnab Kundu, Manish Mukhopadhyay, Ayan Banerjee, Bijoy Mandal and Santanu Das, "Exploring Grind Ability Of Inconel 718 Using Small Quantity Cooling And Lubrication Technique", *Materials Today: Proceedings* Vol. 5 (2018) pp 4523–4530
18. Arnab Kundu , Manish Mukhopadhyay , Ayan Banerjee , Sirsendu Mahata, Bijoy Mandal and Santanu Das, "Grinding of Titanium using alumina and silicon carbide wheel", *Journal of the Association of Engineers, India* [ISSN 0368-1106] Vol. 88, No. 1&2, 2018, pp 53-63.
19. A. Kundu, S. Mahata, M. Mukhopadhyay, A. Banerjee, B. Mandal, S. Das Studying the effects of using liquid carbon dioxide and soap water in grinding Inconel 718, *IOP Conf. Ser.: Mater. Sci. Eng.* 377-012060 (2018) 1-6. doi:10.1088/1757-899X/377/1/012060
20. Kundu, A., Mahata, S., Mukhopadhyay, M., Banerjee, A., Mandal, B., Das, S., "Grinding of Inconel 718 using soap water jet and liquid carbon dioxide" *Advanced Manufacturing and Materials Science, Lecture Notes on Multidisciplinary Industrial Engineering (Springer publication)*, Book chapter (2018) pp 293-300.

21. S. Mahata, B. Mandal and S. Das, “A Systematic Investigation to improve Grindability of Titanium alloys” presented in the 8<sup>th</sup> International Science Conference on 21.11.2018 and 22.11.2018 at Jadavpur University, Kolkata, India organized by the World Science Congress.

22. Sirsendu Mahata, Manas Bhattacharyya, Bijoy Mandal, and Santanu Das, “A Novel Small Quantity Lubrication Method to Assess Grindability of Inconel 718”, AIMTDR Chennai, 13-15 Dec 2018

23. S. Mahata, M. Mukhopadhyay, A. Banerjee, A. Kundu, B. Mandal and S. Das, “Exploring Grindability of Ti-6Al-4V using an Indegenously Developed Environment Friendly Micro Pump based Cooling System”, Indian Journal of Engineering and Materials Sciences Vol. 27, No. 3, 2020, pp 724-729