

Dr. Ranjib Biswas

Registrar

Kazi Nazrul University

PS: Nazrul Road, Kalla Bypass More

North, P.O. C H Kalla, Asansol, West Bengal 713340



- **Personal:**
 - Father's Name: Late Mr. Tarapada Biswas.
 - Date of Birth: 25th Day of October, 1978.
 - Permanent & Communication Address : 'Ganapati Enclave', Flat 3D, 31 G.T. Road, Bally, Howrah- 711201, India.
 - Phone No.: +91 9830086991 (M)
 - E-mail address: registrar@knu.ac.in
ranjib.biswas@gmail.com

- **Academics:**

Sl. No.	Course of study/ Degree	Board/ University	Year of passing	Division/ Class (% of marks)
1	B.Tech. (Mechanical Engineering)	Kalyani University	1999	1 st (75.73)
2	M.Prod.E. (Production Technology)	Jadavpur University	2003	1 st (86.57)
3	Ph.D. (Engg.)	Jadavpur University	2013	--

- **Experience:**

Sl. No.	Post	Organization	Duration	
			From	To
1	Registrar	Kazi Nazrul University, PS: Nazrul Road, Kalla Bypass More, North, P.O. C H Kalla, Asansol, West Bengal 713340	1-Feb-21	Till Date
2	Professor	MCKV Institute of Engineering, 243, G.T. Road (N), Liluah, Howrah-711204	1-Dec-19	31-Jan-21
3	Associate Professor	MCKV Institute of Engineering, 243, G.T. Road (N), Liluah, Howrah-711204	1-Nov-11	30-Nov-19
4	Assistant Professor	MCKV Institute of Engineering, 243, G.T. Road (N), Liluah, Howrah-711204	1-Nov-08	31-Oct-11
5	Lecturer (Sr. Scale)	MCKV Institute of Engineering, 243, G.T. Road (N), Liluah, Howrah-711204	1-Aug-08	31-Oct-08
6	Lecturer	MCKV Institute of Engineering, 243, G.T. Road (N), Liluah, Howrah-711204	1-Aug-03	31-Jul-08
7	Guest Faculty	Moulana Abul Kalam Azad University of Technology, West Bengal, India	08/2004	07/2011

▪ **Academic Distinction/ Award:**

- Recipient of University Gold Medal for securing 1st Position in M. Prod. E. from Jadavpur University (2003)
- National Scholarship in Class VIII (1990), Class X (1992)

▪ **Major Administrative/ Institutional Responsibilities Handled:**

Sl. No.	Details of Responsibility Entrusted	Authority	Duration	
			Starting Date	Ending Date
1	Registrar	Kazi Nazrul University	01 Feb 2021	Till Date
2	Dean (Academic)	MCKV Institute of Engineering	04 Sep 2019	31-Jan-2021
3	SPOC, NPTEL Local Chapter	NPTEL, MCKV Institute of Engineering	05 May 2019	31-Jan-2021
4	Super Administrator, Coursera for Campus Programme	Coursera, MCKV Institute of Engineering	14 April, 2020	31-Jan-2021
5	Coordinator of IIRS Outreach Programme	ISRO, MCKV Institute of Engineering	July, 2020	31-Jan-2021
6	Nodal officer of Evaluation & Monitoring Committee of TEQIP II	MCKV Institute of Engineering	01 May 2011	30 Apr 2017
7	Head of Mechanical Engineering Department	MCKV Institute of Engineering	11 Jan 2011	03 Jan 2016
8	Member of Board of Studies (Mechanical Engineering)	Maulana Abul Kalam Azad University of Technology	14 Mar 2017	31-Jan-2021
9	Convener/ Coordinator Internal Quality Assurance Cell	MCKV Institute of Engineering	28 Sep 2016	31-Jan-2021
10	Coordinator of CII Industry Institute Interface Programme	MCKV Institute of Engineering	29 Apr 2016	31-Jan-2021

▪ **Publications:**

Books/ Book Chapters: 06

Sl. No.	Name of Book/ Monograph/ Book Chapter(s)	Name of the Co-Author(s), if any	Year of Publication	Publisher
1	Engineering Graphics (ME-291)	...	2007	New Age International Publishers
2	Workshop Practical (ME-292)	...	2007	New Age International Publishers

3	Engineering Graphics (ME-291)	...	2007	New Age International Publishers
4	Application of Lasers in Manufacturing	Biswas S. , Roy N., Kuar A.S.	2019	Springer
5	Reviewed a chapter of book "Engineering Thermodynamics and Fluid Mechanics"	Nag, Pati, Jana	2013	McGraw Hill Publishers
6	Book Chapter "APPLICATION OF HEAT TRANSFER ENHANCEMENT TECHNIQUES: A STATE-OF-THE-ART REVIEW", BOOK TITLE: Inverse Heat Conduction and Heat Exchangers	S. Bhattacharyya, Md. Moghimi Ardekani	2020	INTECHOPEN LIMITED, London, UK

Journal Papers: 22

Sl. No.	Title of Paper(s)	Name of the Co-Author(s)	Name of the Journal(s)	Volume, Year & Page(s)	Impact Factor/ Indexed in
1	"Analytical model for ultrashort-pulse laser heating in a titanium nanofilm with implementation of dual-phase-lag theory"	J. Dutta, B. Kundu	Journal of Thermal Analysis and Calorimetry (Springer)	Accepted (2021)	4.246 (SCI) (clarivate analytics)
2	"Tool condition monitoring: unscented Kalman filter for tool flank wear estimation in turning of Inconel 718"	C Sadhukhan, S K Mitra, M K Naskar	Machining Science and Technology (Taylor & Fransis)	Volume 25 (2) (2021) pp. 331-348	2.071 (SCI) (clarivate analytics)
3	"A novel CFD analysis to minimize the spread of COVID-19 virus in hospital isolation room"	S, Bhattacharyya, K. Dey, A. R. Paul	Chaos, Solitons and Fractals (Elsevier)	Volume 139 (2020) 110294 ISSN: 0960-0779	3.764 (SCI) (clarivate analytics)
4	"Experimental Study Of Partially Submerged Laser Transmission Channeling On Thick PMMA Plate"	S. Biswas, N. Roy, A.S. Kuar	Lasers in Engineering (Old City Publishing, UK)	Volume 44 (4-6), (2020) pp. 289-311	0.305 (SCI) (clarivate analytics)

5	"Analysis of heat transfer around bluff bodies with variable inlet turbulent intensity: A numerical simulation"	S.C. Murmu, S. Bhattacharyya, H. Chattopadhyay	International Communications in Heat and Mass Transfer (Elsevier) ISSN: 0735-1933	Volume 117, October 2020, 104779	3.971 (SCI) (clarivate analytics)
6	"Analytical solution of dual-phase-lag based heat transfer model in ultrashort pulse laser heating of A6061 and Cu3Zn2 nano film"	J. Dutta, B. Kundu	Optics & Laser Technology (Elsevier) ISSN: 0030-3992	Volume 128, August 2020, 106207	3.233 (SCI) (clarivate analytics)
7	"CPU Heat Sink Cooling by Triangular Shape Micro-Pin-Fin: Numerical Study"	M.W. Alam, S. Bhattacharyya, B. Souayah, K. Dey, F. Hammami, Md R. Gorji	International Communications in Heat and Mass Transfer (Elsevier) ISSN: 0735-1933	Volume 112, March 2020, 104455	3.971 (SCI) (clarivate analytics)
8	"Influence of Inlet Turbulence Intensity on Transport Phenomenon of Modified Diamond Cylinder: A Numerical Study"	S. Bhattacharyya, H. Chattopadhyay, Daniel R. E. Ewim, Z. Huan	Arabian Journal of Science and Engineering (Springer) ISSN: 21991-4281	Vol. 45, (2020) pp. 1051-1058	1.711 (SCI) (clarivate analytics)
9	"Selection of Nd:YAG laser beam micro-drilling parameters using multi-criteria decision making methods"	M.C. Das, S. Bhattacharyya, A.S. Kuar, S. Mitra	Optics and Laser Technology (Elsevier) ISSN: 0030-3992	Vol. 119, (2019), pp 105596-01-07	4.273 (SCI) (clarivate analytics)
10	"A Parametric Study on Pulsed Nd:YAG Laser Micro-Drilling of Gamma-Titanium Aluminide"	A.S. Kuar, S. Sarkar, S. Mitra	Optics and Laser Technology (Elsevier) ISSN: 0030-3992	Vol. 42, (2010) pp. 23-31	4.273 (SCI) (clarivate analytics)
11	"Artificial Neural Network Modeling of Nd:YAG Laser Microdrilling on Titanium Nitride- Alumina Composite"	A.S. Kuar, S.K. Biswas, S.Mitra	Journal of Engineering Manufacture, Proceedings of the Institution of Mechanical Engineers- Part B	Vol.224 (B3), (2010) pp. 473-482	1.982 (SCI) (clarivate analytics)

			ISSN: 2041-2975		
12	“Effects of Process Parameters on Hole Circularity and Taper in Pulsed Nd:YAG Laser Micro-Drilling of TiN- Al ₂ O ₃ Composites”	A.S. Kuar, S.K. Biswas, S.Mitra	Materials and Manufacturing Processes (Taylor & Fransis) ISSN: 1532-2475	Vol. 25: 6, (2010) pp.503 - 514	3.046 (SCI) (clarivate analytics)
13	“Characterization of hole circularity in pulsed Nd:YAG laser micro-drilling of TiN- Al ₂ O ₃ composites”	A.S. Kuar, S.K. Biswas, S.Mitra	The International Journal of Advanced Manufacturing Technology (Springer) ISSN: 1433-3015	Vol. 51, Issue 9, (2010) pp. 983-994	2.925 (SCI) (clarivate analytics)
14	“Multi-objective optimization of hole characteristics during pulsed Nd:YAG laser microdrilling of gamma-titanium aluminide alloy sheet”	A.S. Kuar, S.Mitra	Optics and Lasers in Engineering (Elsevier) ISSN: 0143-8166	Vol. 60, (2014) pp. 1-11	4.273 (SCI) (clarivate analytics)
15	“Process optimization in Nd:YAG laser microdrilling of alumina-aluminium interpenetrating phase Composite”	A.S. Kuar, S.Mitra	Journal of Materials Research and Technology (Elsevier) ISSN: 2238-7854	Vol. 4(3), (2015) pp. 223-232	5.289 (SCI) (clarivate analytics)
16	“Influence of Machining Parameters on Surface Roughness in Nd:YAG Laser Micro-Cutting of Alumina-Aluminium Interpenetrating Phase Composite”	A.S. Kuar, S. Mitra	International Journal of Surface Science and Engineering (IJSurfSE) (Inderscience) ISSN: 1749-7868	Vol. 2, No. 3/4, (2008) pp.252-264	0.841 (SCI) (clarivate analytics)
17	“Experimental investigation of Nd:YAG laser micro-grooving operation of alumina workpiece using RSM”	A.S. Kuar, P. Biswas, S. Mitra	International Journal of Materials and Structural Integrity (Inderscience) ISSN: 1745-0063	Vol. 1, No. 4, (2008) pp.355-367	Scopus (Elsevier), Academic OneFile (Gale), Asian Digital Library etc.
18	“Parametric Study of Hole Circularity in Nd:YAG Laser Microdrilling of Alumina-Aluminium (Al ₂ O ₃ -Al) Interpenetrating Phase Composite”	A.S. Kuar, S. Mitra	International Journal of Manufacturing Research (IJMR) (Inderscience) ISSN:1750-0591	Vol. 4, No. 2, (2009) pp.252-264	Scopus (Elsevier), Compendex [formerly Ei] (Elsevier), Asian Digital Library etc.

19	"Optimisation of Taper formation During Pulsed Nd:YAG Laser Micro-drilling of Alumina"	A.S.Kuar, B. Doloi, S. Mitra, B. Bhattacharyya	Journal of Modern Manufacturing Technology (JMMT) ISSN: 0974-8415	Vol. 1, No.2., (2009) pp.151-161	SCOPUS; INDEX COPERNICUS, INTERNATIONAL etc.
20	"Hole Taper in Laser Micro-drilling Operation on Advanced Engineering Materials: A Comparative Study"	T. Samanta, A.S. Kuar, S.Mitra,	<i>Canadian Journal on Technology Innovation</i>	Vol. 1, pp. 267-275 (2014).	--
21	"Numerical Study of a Triangular Bluff Cylinder for Heat Transfer Enhancement in a Vertical channel"	A. Jhunjhunwala, R. Soni, S. Bhattacharyya	Journal of Association of Engineers ISSN: 0368-1106	Accepted	--
22	"Experimental Investigation of Varying Laser Pass on Micro-channel Characteristics of Thick PMMA by Laser Transmission Micro-machining"	S. Biswas, N. Roy, A.S. Kuar	Materials Today Proceedings, Elsevier ISSN: 2214-7853	Vol. 18 (17), pp. 3514-3520 (2019)	Scopus; Conference Proceedings Citation Index

Conference Paper: 19

National			
Sl. No.	Date (s)	Title of Conference or Institution	Title/Subject of presentation
1	February 15-16, 2019	National Conference on Trends And Advances In Mechanical Engineering (Tame-2019), The Association of Engineers, India & Kalyani Government Engineering College	"Numerical Study of a Triangular Bluff Cylinder for Heat Transfer Enhancement in a Vertical channel"
2	October, 26-28, 2016	Proceedings of National Conference on Computing, Electronic Devices, Materials, Manufacturing & Thermal Engineering (NCCEDMMT 2016); MCKV Institute of Engineering, Howrah, India	"Prediction of Weld Strength in Robotic GMAW of Medium Carbon Steel using Artificial Neural Networks"
3	February 19-20, 2010	Proceedings of National Conference on Recent Advances in Manufacturing Technology and Management (RAMTM 2010), Production Engineering Department, Jadavpur University, Kolkata, India	"Parametric Study of Hole Taper in Nd:YAG Laser Micro- Drilling of Alumina-Aluminium (Al ₂ O ₃ -Al) IPC"

4	January 7-9, 2010	Proceedings of WALMI -2010 Seminar, Jadavpur University, Kolkata, India	"Characterization of Hole Circularity in Pulsed Nd:YAG Laser Micro-Drilling of Gamma-Titanium Aluminide"
5	January 17-19, 2008	Proceedings of WALMI -2008 Seminar, Jadavpur University, Kolkata, India	"Parametric Study Of Hole Taper In Nd:YAG Laser Micro-Drilling Of Al ₂ O ₃ -Al IPC"
6	December 20-22, 2005	Proceedings of 21st. AIMTDR Conference, Vellore Institute of Technology, Vellore, India	"Experimental Investigation on Electrochemical Deburring (ECD) Process"
7	March 28-29, 2003	Proceedings of National Conference on Advances in Manufacturing Systems, Production Engineering Department, Jadavpur, Kolkata, India	"Development of Electrochemical Deburring Technology for Enhanced Deburring Characteristics"
8	November 14-15, 2003	Proceedings of National Conference on Advances and Recent Trends in Manufacturing	"Experimental Study of the electrochemical Deburring (ECD) Process"
International			
9	February 21-23, 2020	10 th International Conference on Materials Processing and Characterization (ICMP- 2020), GLA University, Mathura, India.	"Study on Kerf deviation of Microchannel with Various medium in Laser Transmission Cutting by Diode Pump Fibre laser"
10	December 28-31, 2019	25 th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTC-2019), IIT Roorkee, India	"Transport phenomenon over array of diamond cylinders with varying inlet turbulent intensity",
11	July 14-18, 2019	11 th International Exergy, Energy and Environment Symposium (IEEEES-11), SRM Institute of Science and Technology, Chennai, India.	"Experimental investigation of heat transfer performance and entropy generation in a helical corrugated solar air heater duct with matrix roughness"
12	March 8-10, 2019	ICMPC 2019 - International Conference on Materials Processing and Characterization, Gokaraju Rangaraju Institute of Engineering and Technology, Telangana, India	"Experimental Investigation of Varying Laser Pass on Micro-channel Characteristics of Thick PMMA by Laser Transmission Micro-machining "

13	December 7-9, 2017	Proceedings of 10th International Conference on Precision, Meso, Micro and Nano Engineering (COPEN 10)	"Investigation on Depth of the Micro-Channels generated by Underwater Laser Transmission Micro-Machining"
14	December 16-18, 2016	Proceedings of 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016), College of Engineering, Pune, Maharashtra, INDIA	"Experimental Investigation on Underwater Laser Transmission Micro-channeling on PMMA"
15	December 22-23, 2014	Proc. of Int. Conf. on Computing, Communication & Manufacturing 2014, MCKV Institute of Engineering, Howrah, India	"Comparative Study of Hole Taper in Nd:YAG Laser Micro-drilling of Advanced Engineering Materials"
16	January 28-29, 2011	International Conference on Operations and Management Sciences-2011 (ICOMS-11), Institute of Management Technology, Nagpur, India	"Parametric optimization of hole circularity in Nd:YAG laser micro drilling of alumina-aluminium (Al ₂ O ₃ -Al) interpenetrating phase composite using Fuzzy Logic"
17	December 11-12, 2009	International conference on Precision, Meso, Micro, Micro and Nano engineering (COPEN6 2009), PSG College of Technology and AMRITA School of Engineering, Coimbatore	"Characterization of Hole Taper in Nd:YAG Laser Percussion Drilling of Gamma-Titanium Aluminide"
18	December 15-17, 2008	2nd International and 23rd All India Manufacturing Technology, Design and Research (AIMTDR) Conference, Indian Institute of Technology, Chennai, India	"Influence of process parameters during pulsed Nd:YAG laser microdrilling Of TiN-Al ₂ O ₃ Composite"
19	December 13-14, 2007	International conference on Precision, Meso, Micro, Micro and Nano Engineering (COPEN 2007), College of Engineering, Trivandrum	"Parametric optimization of Hole circularity in Nd:YAG laser microdrilling of Al ₂ O ₃ -Al IPC"

▪ **Conference/ Short Course/ Seminar/ Workshop/ In-House Programme organized:**

Sl. No.	Date (s)	Conference/ Program Organized & Role	Organization/Venue
1	2 December, 2019	International Seminar on Sustainable Development Goals: The Pathway for India (Convener)	Centenary Organising Committee (COC) for Centenary Celebrations of the Alumni Association of NCE Bengal & Jadavpur University at Jadavpur University
2	07-08 February,	Two-day National Seminar on Conventional to Renewables-	Alumni Association, NCE Bengal & Jadavpur

	2020	Transition in Indian Power Sector (Organizing Committee Member)	University in collaboration with School of Energy Studies, Jadavpur University (RUSA 2.0)
3	27-28 July, 2018	International Conference on Emerging Technologies for Sustainable and Intelligent HVAC&R Systems (Organizing Committee Member)	Institution of Engineers (India) West Bengal State Centre
4	17-19 March, 2017	INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND TECHNOLOGY (Organizing Committee Member)	MCKV Institute of Engineering
5	26-28 October, 2016	National Conference on Computing, Electronic Devices, Materials, Manufacturing & Thermal Engineering (NCCEDMMT 2016) (Chairman)	MCKV Institute of Engineering
6	18-22 October, 2016	National Workshop on "RECENT ADVANCES IN HEAT & FLUID FLOW" (Secretary)	Govt. College of Engineering and Textile Technology, Berhampore, West Bengal
7	13-15 September, 2016	National Seminar on "Micro-machining" (Coordinator)	MCKV Institute of Engineering
8	29-30 September, 2016	Seminar on "RECENT ADVANCES IN THERMO-FLUID SCIENCES" (Coordinator)	MCKV Institute of Engineering
9	26-27 April, 2016	Organized Summer Student Quiz-2016, Chilled (Coordinator)	MCKV Institute of Engineering
10	20-24 April, 2015	FDP on Basic Pedagogy (Secretary)	MCKV Institute of Engineering
11	23-25 September, 2014	Int. Conference on Computing, Communication & Manufacturing 2014, MCKV Institute of Engineering, Howrah, India (Organizing Committee Member)	MCKV Institute of Engineering
12	19-20 July, 2014	National Workshop on "Future Paradigms in Engineering: Road Maps for Manufacturing & Design, Engines, Thermo- Fluids and Service Sectors" (Convener)	MCKV Institute of Engineering
13	12-13 February, 2014	International Workshop on "Low Carbon Development: Carbon Capture and Carbon Sequestration Technology Route" (Convener)	MCKV Institute of Engineering
14	1 st June, 2012	Conducted Scilab Workshop with the help of FOSSEE and Spoken Tutorial Projects, IIT Bombay, Funded by MHRD, Govt. of India.	IIT Bombay

15	5-10 October, 2020	Coordinated Six days Online AICTE Sponsored Short Term Training Program (STTP) on "Optimization Techniques: Recent Trends & Applications in Engineering"	AICTE
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▪ **Online Certification Courses Coordinated/ Organized:**

Sl. No.	Name of the Course	Host Institution	Duration	Date of Completion
1	QEEE Programme on Basics of Design of Machine Elements	IIT, Madras	August-October, 2015	August, 2015
2	Mentored students in NPTEL Course on Fundamentals of Manufacturing Processes	NPTEL	July-October, 2018	October, 2018
3	"Applications of Analytics in IIoT"	Dr. Tanushyam Chattopadhyay, TCS Research and Innovation.	May-2, 2020	May-2, 2020
4	Coursera for Campus Program @ MCKVIE	Coursera, USA	April-14, 2020	Nov-30, 2020
5	IIRS Outreach Programme on Satellite Photogrammetry and Its Applications	ISRO, India	June-29, 2020	July-20, 2020
6	IIRS Outreach Programme on Course on Geospatial Inputs for Enabling Master Plan Formulation	ISRO, India	July-28, 2020	July-31, 2020
7	IIRS Outreach Programme on Course on Application of Geoinformatics in Ecological Studies	ISRO, India	July-13, 2020	July-21, 2020

▪ **Invited Lectures or Presentations:**

Sl. No.	Invited Lecture delivered in	Organized by and Date
1	National Workshop on "RECENT ADVANCES IN HEAT & FLUID FLOW"	Govt. College of Engineering and Textile Technology, Berhampore, West Bengal on 18-22 October, 2016
2	Orientation Day Programme on 'Scope of Mechanical Engineering'	Modern Institute of Engineering & Technology, Hooghly, West Bengal, India on 12 th July, 2015