




Bharath Institute of Higher Education and Research

Faculty Profile

Personal Details	
Name: Dr. R. J. Golden Renjith Nimal	
Designation: Associate Professor	
Department: Mechanical Engineering	
Name of Institution: Bharath Institute of Science and Technology	
mobile: 9994351938	
Email : goldenrenjith.mech@bharathuniv.ac.in	

Area of Interest	Solid State Welding, Metal Characterization
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Subjects Taught	
UG	PG
Kinematics of Machines	Non Destructive Testing
Dynamics of Machines	Design of Mechanism I
Manufacturing Technology I & II	

Academic Background				
Degree	Specialization	University	Class	Month & Year of Passing
Ph.D	Welding	Anna University		July 2018
ME	Manufacturing Engineering	Anna University	First Class with Distinction	June 2010
MBA	Human Resource Management	Annamalai University	First Class	DDE
BE	Mechanical Engineering	Anna University	First Class	July 2007

Work Experience as on Oct-2020			
Name of the Institution/Company	Position	From	To
Sun Institute of Technology, Erachakulam.	Lecturer	6th June 2007	31st August 2008

Lord Jegannath college of Engineering and Technology, Ramanathichanputhur		Assistant Professor		3rd June 2010		17th May 2013	
Bharath Institute of Higher Education and Research, Chennai		Assistant Professor		1st July 2013		Till Now	
Total experience	11.5	Teaching	11.5	Research	<years>	Administration	<years.

Research Publications				
International Journal	National Journal	International Conference	National Conference	Total Number of Publications
21	4	2	-	27

Recent Publications(Journals)- Chronological order	
Sl.No	Details
1	R. Hariharan, R. Raja and R. J. Golden Renjith Nimal, “Investigation of Mechanical and Tribological properties of Titanium nitride deposited on low carbon steel by RF magnetron sputtering” , Journal of Critical Reviews, Vol 7, Issue 4, pp. 324- 328, 2020. doi: 10.31838/jcr.07.04.60.
2	R. Hariharan, R. Raja and R. J. Golden Renjith Nimal, “Characteristic of High performance on Mild Steel/AlN Cermet Selective Surfaces Deposited by RF Magnetron Sputtering” , Journal of Critical Reviews, Vol 7, Issue 4, pp. 319-323, 2020. DOI: http://dx.doi.org/10.31838/jcr.07.04.59 .
3	R.J. Golden Renjith Nimal, M. Siva Kumar and G. Esakkimuthu, “FEA and Mechanical Analysis of Magnesium AZ 80 Alloy and Aluminum 7075 Alloy using Diffusion Bonding” , Advancement in Engineering, Science & Technology J. Mech. Cont.& Math. Sci., Special Issue, No.-2, August (2019) pp 720-728. https://doi.org/10.26782/jmcms.spl.2019.08.00087 .
4	R. Hariharan, R. Raja and R. J. Golden Renjith Nimal, “Temperature dependence of composition in Ta-Zr-N thin film Deposited by Magnetron Sputtering” , Advancement in Engineering, Science & Technology J. Mech. Cont.& Math. Sci., Special Issue, No.-2, August (2019) pp 744-754. https://doi.org/10.26782/jmcms.spl.2019.08.00087 .
5	R. Hariharan, R. Raja and R. J. Golden Renjith Nimal, “Structural Tribological Characterization and Mechanical Properties of Ti-Zr-N Coating Deposited By RF/DC Magnetron Sputtering” , Advancement in Engineering, Science & Technology J. Mech. Cont.& Math. Sci., Special Issue, No.-2, August (2019) pp 680-688. https://doi.org/10.26782/jmcms.spl.2019.08.00087 .
6	R.J. Golden Renjith Nimal, M. Siva Kumar and G. Esakkimuthu, “An investigation of aluminium & magnesium alloy with interlayer using diffusion bonding” , International Journal of Psychosocial Rehabilitation (IJPR), Vol. 23, Issue 4, July 2019, pp. 144-156 DOI: 10.37200/IJPR/V23I4/PR190171.
7	R.J. Golden Renjith Nimal, M. Siva Kumar and G. Esakkimuthu, “An investigation on mechanical properties and microstructure of Mg/Al alloys using Zn interlayer during diffusion bonding” , International Journal of Mechanical and Production Engineering Research and Development (IJMPERD),

	Vol. 9, Issue 3, June 2019, pp. 125-130.
8	R. J. Golden Renjith Nimal, M. Chentil, P. Gnaneswar, Somu veerendranath and B. Ganesah Reddy, “Metallurgical and Microstructural Analysis on Diffusion Bonding of Mg/Al Alloys using Aluminium Coating Interlayer” , International Journal of Recent Technology and Engineering (IJRTE), Vol. 7, Issue 6S2, April 2019, pp. 631-633.
9	R J Golden Renjith Nimal, Vivekanand Kumar, Abdul Majid, V Manikanta Raju and Zameerul Haque, “Mechanical Behaviour of Composite Weld Of LM 25/ SicP by Friction Welding” , International Journal of Recent Technology and Engineering (IJRTE), Vol. 7, Issue 6S2, April 2019, pp. 627-630.
10	R.J. Golden Renjith Nimal, M. Siva Kumar, S. Gokul Raj, S. Arungalai Vendan and G. Esakkimuthu, “Microstructural, Mechanical And Metallurgical Analysis of Al Interlayer Coating On Mg-Al Alloy Using Diffusion Bonding” , Materials Today: Proceedings, ELSEVIER, Science Direct 5 (2018): 5886-5890.
11	R.J. Golden Renjith Nimal and R. Hariharan, A Study of Aluminium & Magnesium Alloy With Interlayer Using Diffusion Bonding , International Journal of Pure and Applied Mathematics (IJPAM) / Vol. 116 / Issue 14 / 2017 / 525-531.
12	R.J. Golden Renjith Nimal, R. Hariharan and R. Sabarish, Deflection and Stress Analysis of Gear Wheel Tooth Victimisation Steel , International Journal of Pure and Applied Mathematics (IJPAM) / Vol. 116 / Issue 15 / 2017 / 1-7.
13	R.J. Golden Renjith Nimal, R. Hariharan and R. Karthikeyan, Design and Fabrication of an Indexing Fixture in a Shaper Machine , International Journal of Mechanical Engineering and Technology (IJMET) / Vol. 8 / Issue 8 / August, 2017 / 1594-1600.
14	R.J. Golden Renjith Nimal, M. Siva Kumar and G. Essakimuthu, Studies on Diffusion Bonding of AA7075 Aluminium Alloy and AZ80 Magnesium Alloy , International Journal of Advanced Engineering Technology (IAET) / Vol. VII/Issue II/April-June, 2016/1061-1062.
15	R.J. Golden Renjith Nimal, M. Siva Kumar, S. Arungalai Vendan, G. Essaki Muthu and Chinnadurai Thangam, Studies on Mechanical and Metallographical Aspects of Diffusion Bonding of AA7075Aluminium Alloy and AZ80 Magnesium Alloy , Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment and Technology (AWET) 4 (11): 1221-4639, Nov 2015.
16	R.J. Golden Renjith Nimal and Anselm W. A. Lenin, Defect Analysis on Al 7020 FSW Joints with Mg Interlayering , Indian Journal of Science and Technology, vol 8 (31): IPL0704, Nov 2015.
17	R.J. Golden Renjith Nimal and R. Karthikeyan, Fabrication and Numerical Analysis Glass Fiber Laminate , International Journal of Application or innovation in Engineering and Management 4 (11): 2319-4847, Nov 2015.
18	J. Dhamodharan and R.J Golden Renjith Nimal, SCS & GIS Enabled project management system for development and implementation phase of gas distribution project , International Journal of Mechanical Engineering & Technology (IJMET), 6(8) (Aug 2015) 156-169.
19	R. Hariharan and R.J. Golden Renjith Nimal, Friction Stir Welding of Dissimilar Aluminium Alloys (6061&7075) By Using Computerized Numerical Control Machine , Middle-East Journal of Scientific Research 20 (5): 601-605, 2014.
20	S. Gopinath and R.J Golden Renjith Nimal, Design and Fabrication of Magnetic Shock Absorber , International Journal of Engineering and Technology, 3(2) (2014) 208-211.

21	R. Hariharan and R.J. Golden Renjith Nimal, Solving Flow Shop Scheduling Problems Using a Hybrid Genetic Scatter Search Algorithm , Middle-East Journal of Scientific Research 20 (3): 328-333, 2014.
22	R. Hariharan and R.J. Golden Renjith Nimal, Die Design for Homogeneous Plastic Deformation During Ecap and Investigation of Mechanical Properties of Pure Aluminum and Copper Rods , Middle-East Journal of Scientific Research 14 (12): 1716-1721, 2013.
23	R. Hariharan and R.J. Golden Renjith Nimal, Evaluation of Filling conditions in Injection Moulding by Integrating Numerical Simulations , Middle-East Journal of Scientific Research 12 (12): 1608-1604, 2012.
24	R. Hariharan and R.J. Golden Renjith Nimal, Experimental Investigation on material characteristics of Al 6061-TiB₂ MMC processed by stir casting routes , Middle-East Journal of Scientific Research 12 (12): 1615-1619, 2012.
Recent Publications (Conferences) -Chronological order	
Sl.No	Details
1	R.J. Golden Renjith Nimal, M. Siva Kumar, S. Arungalai Vendan and G. Esakkimuthu, “Effect of Mechanical and Metallurgical Analysis of Magnesium and Aluminium Alloys Using Diffusion Bonding” , Springer International Publishing AG, part of Springer Nature K. Antony and J. P. Davim (eds.), Advanced Manufacturing and Materials Science, Lecture Notes on Multidisciplinary Industrial Engineering, (2018): 395- 401.

Memberships in Professional Bodies	
Sl.No	Name of the Professional Body
1	Membership in IWS

Training Programmes Attended	
Sl.No	Details in Chronological order
1	Attended Online Course on “Welding of Advanced High Strength Steels for Automotive Applications” conducted by NPTEL powered by SWAYAM from July – August 2019 (4 Weeks).
2	Attended Online FDP on “Novel Materials” conducted by AICTE Training And Learning (ATAL) Academy from 5 th October 2020 to 9 th October 2020.
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Roles and Responsibilities	
Sl.No	Details
1	Department Camu Coordinator
2	Department Examcell Coordinator
3	Department Assistant Timetable Coordinator

Awards Received	
Sl.No	Details
1	Best Paper Award in the National conference on “ Recent Advances in Materials and Manufacturing ” (RAMM-2K16) held at Dhirajlal Gandhi College of Technology, Salem on 5 th April 2016.