

FACULTY PROFILE

SUNDARA BHARATHI. S.R

Personal Details

Salutation: Mr.

Instructor Name: **Sundara Bharathi. S.R**

Designation: **Assistant Professor**

Department: MECHANICAL ENGINEERING -
NEC

**Date of Joining in
NEC:** 15-05-2014

**Date of Joining in
Present Post:** 15-05-2014

Mobile Number: 9688014614

College Id: CMST503

College Email Id: sundrabharathicms@nec.edu.in

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Address for Communication

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Nagar

Address Line 2: Pallakku Road

City: Kovilpatti

Pincode: 628501

District: Tuticorin

State: Tamilnadu

Educational Qualifications

Sr	Name of the Degree	Specialization	Name of the Institute	Name of the University	Year of Passing
1	Ph.D	Machining and Optimization	National Engineering College	Anna University	Pursuing
2	M.E	Production	National Engineering College	Anna University	2014
3	B.E	Mechanical	K.S. Rangamy College of Technology	Periyar University	2002

Faculty Professional Experience

Sr	Name of Institute / Organizations	Designation	Date of Joining	To	Total Experience
1	National Engineering College	Assistant Professor	15-05-2014	31-03-2022	7 Years 10 Months
2	M.S.P.VelayuthaNadarLakshmithaiammal Polytechnic College	Lecturer	03-11-2010	12-04-2012	1 Years 4 Months

Sr	Name of Institute / Organizations	Designation	Date of Joining	To	Total Experience
3	The Sultan Center, Telecom Division, Kuwait	Design Engineer	08-06-2006	30-06-2010	4 Years 22 Days
4	Koushic Pressure Vessels Private Limited, Vellore	Production Engineer	01-06-2002	31-03-2006	3 Years 10 Months

FDP/ Workshop/ Seminar/ Training/ Knowhow Program Attended

Sr	Name of the Event	Event Type	Name of the Institution or Organization	From	To
1	Recent Trends in Design of Experiments (DOE) and Optimization Techniques with Hands-on Training	Faculty Development Program	SRM Institute of Science and Technology, Kattankulathur	18-10-2021	23-10-2021
2	PALS Programme	Faculty Development Program	M/s Brakes India Private Limited	17-02-2021	22-02-2021
3	Fuzzy Logic and Neural Network Approaches for Engineering Solutions	National Workshop	Journal of Advanced Engineering Research in association with Hexacube India	01-05-2020	02-05-2020
4	Design of Experiments- An Engineering Perspective	National Workshop	Journal of Advanced Engineering Research in association with Hexacube India	22-04-2020	24-04-2020
5	Advanced Materials and Manufacturing	Faculty Development Program	Department of Mechanical Engineering, Kakatiya Institute of Technology and Science, Warangal, Telangana	29-06-2020	03-07-2020
6	Applied Soft Computing Theory and Practice	Faculty Development Program	Department of Instrumentation and Control Systems Engineering, PSG College of Technology, Coimbatore	22-04-2019	28-04-2019
7	FDP101x on Foundation Programme in ICT for Education	Faculty Development Program	Indian Institute of Technology, Bombay	08-03-2018	12-04-2018
8	FDP201x on Pedagogy for online and Blended Teaching-Learning Process	Faculty Development Program	Indian Institute of Technology, Bombay	03-05-2018	30-05-2018
9	Technology Enabled Teaching Process	Short Term Training Program	National Institute of Technical Teachers Training and Researchers (NITTTR) Chennai	27-05-2017	29-05-2017
10	Instructional Design and Delivery Systems	Short Term Training Program	National Institute of Technical Teachers Training and Researchers (NITTTR)	22-05-2017	26-05-2017

Sr	Name of the Event	Event Type	Name of the Institution or Organization	From	To
11	Principles and Practices of Non Destructive Testing	Faculty Development Program	Department of Metallurgical Engineering, PSG College of Technology, Coimbatore	25-05-2016	31-05-2016

International and National Conferences Attended

Sr	Name of the Conference	Event Type	Name of the Institution or Organization	Title of the Paper	Authors	From	To
1	Materials and Manufacturing Method (MMM'19)	International Conference Presentation	Department of Metallurgical and Materials Engineering, National Institute of Technology, Trichy	Multi Objective Optimization of CNC Turning Process Parameters with Acrylonitrile Butadiene Styrene Material	S.R.Sundara Bharathi., A.Arul Marcel Moshi, D.Ravindran, R.Rajeshkumar and R.PalaniKumar	05-07-2019	07-07-2019
2	International conference on Emerging Trends in Materials and Manufacturing Engineering (IMME'17)	International Conference Presentation	National Institute of Technology, Tiruchirappalli	Mechanical Properties and Microstructural Characteristics of Friction Welded Dissimilar Joints of Aluminum Alloys	10. S.R.Sundara Bharathi, R.Rajesh Kumar, A.Razal rose and V.Balasubramanian	10-03-2017	12-03-2017
3	International Conference on Recent Innovations in Production Engineering" (RIPE-2017)	International Conference Participation	Madras Institute of Technology, Chennai	Effect of Post Weld Heat Treatment on Mechanical Properties and Micro Structural Characteristics of Gas Tungsten Arc Welded Dissimilar Joint	S.R.Sundara Bharathi and A.Arul Marcel Moshi	24-03-2017	25-03-2017

Faculty Research Publications

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
1	A Multi-objective Grey Relational approach and Regression analysis on optimization of drilling process parameters for GLARE fiber metal laminates	Surface Review and Letters	2022	K. Logesh, A. Arul Marcel Moshi, S.R.Sundara Bharathi and P. Hariharasakthisudhan	10.1142/S0218625X22500664A

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
2	Machinability Study on CNC Turning of Stainless Steel 303 with CVD Multi-Layer (TiN/Al ₂ O ₃ /TiCN) Coated Carbide Insert by using Grey-Fuzzy Logic Approach	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2022	S.R.Sundara Bharathi, D.Ravindran, A.Arul Marcel Moshi, S.V. Alagarsamy, R. Karthick Kannan and V Jegan Prasath	10.1177/09544089221078792
3	Experimental investigation of surface roughness and chip morphology during machining of austenitic stainless steel 303 with pvd coated (TiAlN) insert	Surface Topography: Metrology and Properties	2021	S.R.Sundara Bharathi, D.Ravindran and A.Arul Marcel Moshi	10.1088/2051-672X/abfc64
4	Optimization of transformer oil blended with natural ester oils using Taguchi-based grey relational analysis	Fuel	2021	Subburaj Senthilkumara, Alagar Karthick, R. Madavan, A. Arul Marcel Moshid, S. R. Sundara Bharathi, S. Sarojae, C. Sowmya Dhanalakshmi	10.1016/j.fuel.2020.119629
5	Multi Response Optimization of CNC Turning Parameters on Austenitic Stainless Steel 303 Using Taguchi Based Grey Relational Analysis	Transactions of the Canadian Society for Mechanical Engineering	2020	S.R.Sundara Bharathi, D.Ravindran and A.Arul Marcel Moshi	10.1139/tcsme-2019-0254
6	Characterization of natural cellulosic fiber extracted from Grewia damine flowering plant's stem	International Journal of Biological Macromolecules	2020	Arul Marcel Moshi, D. Ravindran, S.R. Sundara Bharathi, S.R.Padma, S. Indran, and D.Divya	10.1016/j.ijbiomac.2020.07.225
7	Characterization of surface-modified natural cellulosic fiber extracted from the root of Ficus religiosa tree	International Journal of Biological Macromolecules	2020	Arul Marcel Moshi, D. Ravindran, S.R. Sundara Bharathi, S. Indran, and G.Suganya Priyadharshini	10.1016/j.ijbiomac.2020.04.117
8	Characterization of a new cellulosic natural fiber extracted from the root of Ficus religiosa tree	International Journal of Biological Macromolecules	2020	Arul Marcel Moshi, D. Ravindran, S.R. Sundara Bharathi, S. Indran, S.S. Saravanakumar and Yucheng Liu	10.1016/j.ijbiomac.2019.09.094
9	Regression and Grey relational analysis on friction and wear behavior of AA6061/Al ₂ O ₃ /Si ₃ N ₄ /graphite hybrid nano composites	Materials Research Express	2019	P.Hariharasakthisudhan, A.Arul Marcel Moshi, S.R.Sundara Bharathi and K.Logesh	10.1088/2053-1591/ab1cd3
10	Mechanical Properties and Microstructural Characteristics of Friction Welded Dissimilar Joints of Aluminium Alloys	Transactions of the Indian Institute of Metals	2018	S.R.Sundara Bharathi, R.Rajesh Kumar, A.Razal rose and V.Balasubramanian	10.1007/s12666-017-1143-5

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
11	Grey-Fuzzy Modelling and Analysis of Optimizing Turning Process Parameters for Stainless Steel Material	Recent Advances in Manufacturing, Automation, Design and Energy Technologies	2022	V.Jegan Prasath, R.Karthick Kannan, R.Shanmuga Mugesh, N.Sugeesh and S.R.Sundara Bharathi and A.Arul Marcel Moshi	10.1007/978-981-16-4222-7_39
12	Study on the influence of temperature and vibration on indications of liquid penetrant testing of A516 low carbon steel	Materials Today Proceedings	2021	K.R.Manikandan, P.Ashwin Sivgurunathan, S.S.Ananthan, A. Arul Marcel Moshi and S.R. Sundara Bharathi	10.1088/2051-672X/abfc64
13	Multi Objective Optimization of CNC Turning Process Parameters with Acrylonitrile Butadiene Styrene Material	Materials Today Proceedings	2020	S.R.Sundara Bharathi., A.Arul Marcel Moshi, D.Ravindran, R.Rajeshkumar and R.PalaniKumar	10.1016/j.matpr.2019.09.055
14	TIG Welding Process Parameter Optimization for Aluminium Alloy 6061 Using Grey Relational Analysis and Regression Equations	Numerical Optimization in Engineering and Sciences	2020	A.Arul Marcel Moshi, D. Ravindran, S.R. Sundara Bharathi, F. Michael Thomas Rex and P. Ramesh Kumar	10.1007/978-981-15-3215-3-41
15	Characterization of New Natural Cellulosic Fibers – A Comprehensive Review	IOP Conf. Series: Materials Science and Engineering	2019	A.Arul Marcel Moshi ,D.Ravindran., S.R.Sundara Bharathi, V.Suganthan and G.KennadyShajuSingh	10.1088/1757-899X/574/1/012013
16	Investigation on the Mechanical Properties of Sisal – Banana Hybridized Natural Fiber Composites with Distinct Weight Fractions	AIP Conference Proceedings	2019	Arul Marcel Moshi, S.Madasamy, S.RSundara Bharathi, P.Periyayaganathan and AravindPrabharan	10.1063/1.5117941

Membership in Professional Societies

Sr	Name of the Society / Organization	Type of Membership	Membership ID
1	Indian Society for Technical Education	Life Member	LM 75408
2	Institution of Engineers	Associate Member	AM159004-1
3	Indian Welding Society	Life Member	L01733

Book / Book Chapters Published

Sr	Name of the Book	Name of the Chapter	Authors	Publisher	Year of Publication	DOI
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Sr	Name of the Book	Name of the Chapter	Authors	Publisher	Year of Publication	DOI
1	Self-Healing Composite Materials	Self-healing fiber-reinforced epoxy composites	R. Kumar, N. Rajesh Jesudoss Hynes, R. Manju, P. SenthamaraiKannan, S.S. Saravanakumar, Anish Khan, S.R. SundaraBharathi,	Elsevier	2020	10.1016/B978-0-12-817354-1.00020-X
2	Self-Healing Composite Materials	Self-repairing fiber polymer composites: mechanisms and properties	R. Kumar,N. Rajesh Jesudoss Hynes, P. SenthamaraiKannan, Anish Khan,SanjayMavinkereRangappa, SuchartSiengchin , S.R. SundaraBharathi	Elsevier	2020	10.1016/B978-0-12-817354-1.00005-3
3	Metal-Organic Framework Composites: Volume II	Significance of Metal Organic Frameworks Consisting of Porous Materials	R Kumar, A Arul Marcel Moshi, SR Sundara Bharathi, S Sivaganesan, C Dhanasekaran, P SenthamaraiKannan, SS Saravanakumar, Anish Khan	Materials Research Forum LLC	2019	10.21741/9781644900437-10