

FACULTY PROFILE

MANISEKAR.K

Personal Details

Salutation: Dr.
Instructor Name: **Manisekar.K**
Designation: **Professor and Head**
Department: MECHANICAL ENGINEERING -
NEC
**Date of Joining in
NEC:** 23-10-1992
**Date of Joining in
Present Post:** 28-12-2005
Mobile Number: 9442182502
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Address for Communication

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Address Line 2: FIRST STREERT **District:** TUTICORIN
City: KOVILPATTI **State:** TAMILNADU

Educational Qualifications

Sr	Name of the Degree	Specialization	Name of the Institute	Name of the University	Year of Passing
1	Ph.D	Metal Forming	Manonmaniam Sundaranar University, Tirunelveli	Manonmaniam Sundaranar University, Tirunelveli	2005
2	M.E	Engineering Design	Government College of Technology, Coimbatore	Bharathiyar University	1991
3	B.Tech.,	Production Technology	Madras Institute of Technology	Anna University Chennai	1987
4	B.Sc	Physics	St.Xaviers college, Tirunelveli	Madurai Kamaraj University, Madurai	1984

Faculty Professional Experience

Sr	Name of Institute / Organizations	Designation	Date of Joining	To	Total Experience
1	National Engineering College	Head, Department of Mechanical Engineering	12-06-2019		2yrs9Months

Sr	Name of Institute / Organizations	Designation	Date of Joining	To	Total Experience
2	National Engineering College	Professor & Dean (Academic)	22-06-2015	11-06-2019	4yrs
3	National Engineering College	Professor & Head,Center for Manufacturing Sciences	23-09-2009	22-06-2015	6yrs
4	National Engineering College	Professor ,Mechanical Engineering	28-12-2005	22-09-2009	4yrs
5	National Engineering College	Assistant Professor ,Mechanical Engineering	01-06-2000	22-09-2007	7yrs 3months
6	National Engineering College	Senior Lecturer	01-06-1999	30-05-2000	1yr
7	National Engineering College	Lecturer	23-10-1991	30-05-1999	7yr 6months
8	Shanmugha College of Engineering,Thanjore	Lecturer	13-02-1991	22-10-1992	1yr 8Months
9	Martensites Pvt.Ltd.,Hosur	Assistant Engineer	03-10-1987	05-07-1989	1ye 9months

FDP/ Workshop/ Seminar/ Training/ Knowhow Program Attended

Sr	Name of the Event	Event Type	Name of the Instituion or Organization	From	To
1	Dynamic Response on Advanced Composites	GIAN Course	NITK, Suratkal	10-12-2018	14-10-2018
2	City Camp Essentials of Scientific Entrepreneurship	Short Term Training Program	BIRAC at PSG-Science and Technology Entrepreneurial Park, Coimbatore.	17-09-2018	18-09-2018
3	Advanced Material Processing:Microstructural Design and Analysis	National Workshop	Department of Production Engineering, National Institute of Technology, Tiruchirapalli	16-02-2017	18-02-2017
4	Capacity Building Program on Business Incubationon	Training	PSG CT –Science and Technology Entrepreneurial Park(PSG-STEP) & Entrepreneurship Development Institute, Chennai	01-12-2015	01-03-2016
5	3rd World Summit on Accreditation	International Seminar	National Board of Accreditation	18-03-2016	20-03-2016
6	Institutional Quality Improvement: Role of information and communication Technology	National Seminar	IQAC of St.Mary's College, Thoothukudi	31-01-2014	01-02-2014

Sr	Name of the Event	Event Type	Name of the Institution or Organization	From	To
7	Prediction, Prevention and Post Analysis of Engineering Failures	National Workshop	Failure Analysis, Tiruchirapalli Chapter in association with NIT	17-10-2014	
8	Contact and convergence with ABAQUS standard	Industrial Know-How Program	Simulia India, Chennai	23-09-2009	25-03-2009
9	Micro systems for Automotive and Machine Tool Industries	International Workshop	PSG College of Technology, Coimbatore	13-02-2008	
10	“Environmental Sciences and Engineering”	Faculty Development Program	Anna University Chennai	18-05-2004	23-05-2004
11	“All India workshop on Dynamic processing of Materials”	National Workshop	Annamalai University, Chidambaram.	09-03-2000	10-03-2000
12	Mechatronics –Technology for 21st Century	National Seminar	Madras Institute of Technology, Anna University Chennai	05-07-1999	18-07-1999
13	“Design and Computer simulation of pneumatic-Electro pneumatic systems”	National Workshop	PSG College of Technology, Coimbatore	11-05-1994	24-05-1994
14	Induction Training For Teachers	Training	National Engineering College, K.R.Nagar, Kovilpatti	14-11-1996	16-11-1996

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	Second International Conference on Recent Advances in Materials and Manufacturing 2020(ICRAMM20)	International Conference Participation	Mechanical Engineering,velalar College of Engineering & Technology,Erode,	Experimental optimization of cutting parameters in turning of brass alloy using Taguchi method	J.Yadu Krishnan, S.Poorna Sundar, L.Karthikeyan,C.Veera Ajay,K.Manisekar	20-11-2021	21-11-2021
2	7th International Conference on Creep, Fatigue and Creep-Fatigue Interaction	International Conference Participation	Indira Gandhi Centre for Atomic Research, Kalpakkam			19-01-2016	22-01-2016
3	6th International Conference on Advancements in Ploymer materials,	International Conference Participation	Advanced Research School for Technology and Product Simulation, R& D wing CIPET	, Improvement in Physical and Mechanical properties of a 7068 hybrid Composites fabricated by Powder metallurgy Method	J.Lakshmi pathy, S.Vinothkumar and K.Manisekar	20-01-2015	22-01-2015

Sr	Name of the Conference	Event Type	Name of the Institution or Organization	Title of the Paper	Authors	From	To
4	6th International Conference on Advancements In Ploymer materials,	International Conference Participation	Advanced Research School for Technology and Product Simulation, R& D wing CIPET, Chennai.	Finite element Analysis of Cold Upset Froging of Alumnum Solid Cylindrical Billets,	S. David Blessley, K.Manisekar and S.Vinothkumar	20-02-2015	22-02-2015
5	Proceedings of Advances in Industrial Tribology	National Seminar	Centre for Manufacturing Sciences, Department of Mechanical Engineering, National Engineering College, K.R.Nagar, Kovilpatti	Effect of wear behavior of Dry Sliding Wear behavior of self lubricating Al-SiC-Gr Hybrid Composites	P.Ravindran, S.Vinothkumar,K.Manisekar and P. Narayanasamy,	11-02-2015	12-02-2015
6	National conference on Innovative Development in Mechanical Engineering(IIMDE-2014)	National Conference Participation	Department of Mechanical Engineering, Anna University, Regional Centre, Coimbatore.	Effect of High Volume Fraction of Nano SiC Particles of the AA 2024 Hybrid Composites with Addition of Solid Lubricant	S.Vinoth kumar, K.Manisekar & P.Ravindran,	21-03-2014	22-03-2014
7	5th International& 26th all India Manufacturing Technology, Design and Research Conference(AIMTDR 2014)	International Conference Participation	IIT Guwahati, India	Development and Tribological Performance of Nano Sic Particles on the AA2024 Hybrid Composites with the addition of Nano Graphite,	S.Vinoth kumar, K.Manisekar & P.Ravindran	12-12-2014	14-12-2014
8	1st International Conference on Structural Integrity, ICONS-2014,	International Conference Participation	IGCAR,Kalpakkam	Experimental Study of Heat Distribution in Polished Bearing Surfaces for Design and Development of Large Diameter Slewing Ring Bearing For F	S. Babu, K. Manisekar	04-02-2014	07-02-2014
9	, International Conference on Advances in Design and Manufacturing (ICAD&M'14),	International Conference Participation	NIT,Trichy	A Study of Mechanical Properties of Nuclear Reactor Bearing Steels Using Digital Image Correlation Technique	S. Babu, K. Manisekar, V. Dinakarn, C. Gajendran,	05-12-2014	07-12-2014

Sr	Name of the Conference	Event Type	Name of the Institution or Organization	Title of the Paper	Authors	From	To
10	3rd International Conference on Recent Advances in Material Processing Technology	International Conference Participation	Department of Mechanical Engineering , National Engineering College, Kovilpatti, Tamilnadu	Experimental Study on Tensile properties of Fibre reinforced polymer with and without filler material	R.Satheesh Raja, K.Manisekar & V.Manikandan	07-01-2013	09-01-2013
11	TEQIP Sponsored National Seminar on Recent Trends in Welding Technology and Non – Destructive Testing,	National Seminar	Welding Society – Coimbatore Centre, Coimbatore Institute of Technolgoey.	Effect of D/d ratio on Microstructure and Mechanical Properties of Friction Stir Welded AZ61A Magnesium Alloy Joints	A.Razal Rose, V.Balasubramanian, K.Manisekar, S.R.Sundarabharathi, S.Rajkumar	20-09-2013	21-09-2013
12	3rd International Conference on Recent Advances in Material Processing Techno	International Conference Participation	National Engineering College, Kovilpatti	Tribological Properties of Hybrid Aluminium Nano Composites	P.Ravindran, K.Manisekar	07-01-2013	09-01-2013
13	3rd International Conference on Recent Advances in Material Processing Technology	International Conference Presentation	National Engineering College, Kovilpatti	3rd International Conference on Recent Advances in Material Processing Technology	A.Thanesh, L.Vadivel kannan and K.Manisekar	07-01-2013	09-01-2013
14	National Aerospace Manufacturing Seminar	National Seminar	Society of Aero Space Manufacturing Engineers, Thiruvananthapuram	Structural And Mechanical Characteristics of Infiltration Processed Metal Matrix Composites	Sree Manu, K.M., Resmi, V.G., Brahmakumar, M., Anand, N., Rajan, T.P.D., Pavithran, C., Pai	18-11-2011	19-11-2001
15	International conference on carbon Nanotechnology for the new century	International Conference Presentation	Indian Institute of Technology, Kanpur.	Effect of barrelling in square billets of Al. by introducing die constraints at one end under unlubricated condition during cold upset forgi	K.Manisekar, R.Narayansamy &S.Malayappan	20-12-2004	22-12-2004
16	21st AIMTDR,National conference	National Conference Presentation	VIT Deemed University, Vellore	Effect of barrelling in square billets of Al. by introducing die constraints at one end under unlubricated condition during cold upset forgi	K.Manisekar, R.Narayansamy &S.Malayappan	20-12-2004	22-12-2004
17	National Conference on Advances in Manufacturing Technology	National Conference Presentation	N.S.S. college of Engg., Palakkad & The Institution of Engineers(India)	optimum blank Utilization using genetic algorithm	K.Manisekar & K.Ramesh	15-02-2003	16-02-2003

Sr	Name of the Conference	Event Type	Name of the Institution or Organization	Title of the Paper	Authors	From	To
18	National Conference on Advances in Manufacturing Technology	National Conference Presentation	N.S.S. college of Engg., Palakkad & The Institution of Engineers(India)	Optimization of Tool Handling Time using 'AGA' and help desk system	K.Manisekar, S.Manikandan	15-02-2003	16-02-2003
19	3rd International and 24th AIMTDR 2010 conference	International Conference Presentation	Andhra University, Visagapattinam.	Study on design and analysis of large diameter bearings	M.S.Starvin & K Manisekar	13-12-2010	15-12-2010
20	International conferences on Advances in Cutting welding & surface engineering	International Conference Presentation	Welding Society, Coimbatore	Effect of frictional Heat Generation on micro structure and tensile properties of Friction Stir welded AZ61A Magnesium alloy	Rose, A.R., Manisekar, K.& Balasubramania, V	22-01-2011	23-01-2011
21	International conference on advance Engineering and technology	International Conference Presentation	EGS Pillai Engineering College, Nagapattinam	Investigation of non –Linear stiffness of ball bearing using FEA,International conference on advance Engineering and technology	M.S.Starvin & K Manisekar	27-05-2011	28-05-2011
22	SMIRT 21	International Conference Presentation	New Delhi	Design and Estimation of Case Hardening Depth in Large diameter bearings used in FBR, Transactions	M. S. Starvin, S.Babu, Sriramachandra Aithal, K.Manisekar, & P. Chellapandi	06-11-2011	11-11-2011
23	International conference on manufacturing and industrial Engineering (ICMIE'12)	International Conference Presentation	Kuala Lumpur, Malaysia	Effect of Fly ash filler size on mechanical properties of polymer matrix composites	R.Satheesh Raja, K.Manisekar &V.Manikandan	29-12-2012	30-12-2012
24	Eighth international conference on composite science and Technology (iccsT8)	International Conference Presentation	Kuala Lumpur, Malaysia	Effect of carbon Black and fly ash fillers on Tensile properties of composites	R.Satheesh Raja, K.Manisekar & V.Manikandan	23-03-2011	24-03-2011
25	International conference on carbon Nanotechnology for the new century	International Conference Presentation	Indian Institute of Technology, Kanpur	Effect of Carbon block and fly ash fillers on mechanical properties of composites	R.Satheesh Raja, K.Manisekar &V.Manikandan	15-12-2010	17-12-2010

Sr	Name of the Conference	Event Type	Name of the Institution or Organization	Title of the Paper	Authors	From	To
26	International welding Symposium on Innovative Processes for Materials Joining &surfacing	International Conference Presentation	Mumbai	Effect of Shoulder diameter and pin diameter on tensile properties of friction stir welded AZ61A Magnesium alloy	Rose, A.R., Manisekar, K.& Balasubramania, V	10-02-2010	12-02-2010
27	National Conference on Advance trends in Mechanical Engineering Research and Development	National Conference Presentation	JNTU College of Engineering, Anapatpur	Optimization of blank Dimensions on a Stamping Strip For Convex and Non –Convex Shapes –AGA	K.Ramesh & K.Manisekar	21-12-2003	

FDP/ Workshop/ Seminar/ Conference Programs Organized

Sr	Name of the Event	Event Type	Nature of funding	Name of the Funding Agency	Amount received from funding Agency	Role	Venue	From	To
1	Recent Advances in Materials Processing Technology	International Conference	Fund Received from external funding agency	BRNS,DST, CSIR,ISRO,DRDO	₹ 3,50,000.00	Convenor	National Engineering College, K.R.Nagar	25-02-2009	27-02-2009
2	Recent Advances in Materials Processing Technology	International Conference	Fund Supported by college	BRNS, DST,ISRO, DRDO,CSIR	₹ 4,50,000.00	Convenor	National Engineering College, K.R.Nagar	07-01-2013	09-01-2013
3	Recent Advances in Composite Materials	Workshop	Fund Supported by college		₹ 0.00		National Engineering College,K.R.Nagar	05-03-2010	06-03-2010
4	Recent advances in Friction Stir welding	Workshop	Fund Supported by college		₹ 0.00		National Engineering College,K.R.Nagar	13-10-2010	
5	Application of Natural Fiber Composites for the Development of Rural Societies	Workshop	Fund Received from external funding agency	CSIR	₹ 50,000.00		National Engineering College, K.R.Nagar	27-06-2012	28-06-2012
6	Advances in Industrial Tribology	Workshop	Fund Received from external funding agency	BRNS	₹ 1,00,000.00		National Engineering college, K.R.Nagar	11-02-2015	12-02-2015

Sr	Name of the Event	Event Type	Nature of funding	Name of the Funding Agency	Amount received from funding Agency	Role	Venue	From	To
7	NEC Start-up Entrepreneurship summit2019	Hands-on Training	Fund Supported by college		₹ 6,50,000.00		National Engineering College,K.R.Nagar	20-09-2019	22-09-2022

Guest Lecture Delivered

Sr	Name of the Event / Program	Name of the Institution / Organization	Title of the Lecture delivered	From	To
1	FDP programme	Noorul Islam College of Engineering,Thuckalai,	Electro Hydraulic Pneumatic Logic Circuits		
2	workshop	National Engineering College	Formulation of Research and development Grant proposals by Science and Technologist	18-11-2015	20-11-2015
3	Regional Workshop	National Engineering College, K.R.Nagar	Science Writing/Journalism	17-02-2014	21-02-2014
4	FDP Lecture	National Engineering college, K.R.Nagar	How to develop proposals and explore funding support for entreperenurship development activities through MSME" in NSTEBD & DST, Newdelhi spon	16-12-2016	16-12-2016
5	FDP Lecture	National Engineering College, K.R.Nagar	How to develop proposals and explore funding support for entreperenurship development activities through MSME" in NSTEBD & DST, Newdelhi	15-12-2017	15-12-2017

Faculty Research Publications

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
1	, Multi-Objective optimization in incremental sheet forming of Ti-6Al-4V alloy using relational analysis method, Proc IMechE Part E	Journal of Process Mechanical Engineering	2021	C Veera Ajay, S Elanovan, S Pratheesh Kumar and K Manisekar	DOI:10.1177/09544089211063715,2021

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
2	Investigations on crush behavior and energy absorption characteristics of GFRP composite conical frusta with a cutout under axial compression loading	Mechanics of Advanced Materials and Structures	2021	Kathiresan Muthiah, Manisekar Kondal, Vasudevan Rajamohan, Mehmet A. Güler	DOI: 10.1080/15376494.2021.1955168
3	Experimental optimization of cutting parameters in turning of brass alloy using Taguchi method	Materialtoday Proceedings	2021	J.Yadu Krishnan, S.Poorna Sundar, L.Karthikeyan, C.Veera Ajay, K.Manisekar	
4	Mechanical and wear properties of Mg/Mo nanocomposites	Kovove Mater	2019	M. John Iruthaya Raj, K. Manisekar and M Gupta	
5	Central Composite Experimental Design Applied to the Dry Sliding Wear Behavior of Mg/Mica Composites	Journal of Tribology	2018	M. John Iruthaya Raj, K. Manisekar and Manoj Gupta	
6	Dry sliding wear behaviour of single and dual ceramic reinforcements premixed with Al powder in AA6061 matrix	Journal of Materials Research and Technology	2018	Ponnarengan Hariharasakthisudhan, Swaminathan Jose, Kondal Manisekar	
7	Low velocity axial collapse behavior of E-glass fiber/epoxy composite conical frusta	Composite Structures	2017	M. Kathiresan and K. Manisekar	
8	Optimization Analysis of Process Parameters of Friction Stir Welded Dissimilar Joints of Aluminium Alloys	Applied Mechanics & Materials	2017	Subburaj Rajesh Kannan, J Lakshmi pathy, M Vignesh Kumar, K Manisekar, N Murugan	
9	, Effect of Reinforcement and Tribological Behaviour of AA 7068 Hybrid Composites Manufactured through Powder Metallurgy Techniques	Applied Mechanics & Materials	2017	9. J Lakshmi pathy, Subburaj Rajesh Kannan, K Manisekar, S Vinoth Kumar	
10	Heat transfer analysis of slewing ring bearing for high thermal applications	ASME, J. Thermal Sci. Eng. Appl	2016	SME Babu, K. Manisekar, Er.S.Kalaiselvi	
11	.Vettivel, Effect of extrusion on the microstructure and tribological behavior of Copper-tin composites containing MoS ₂	Tribology Transactions.Taylor & Francis	2015	P. Senthil Kumar, K. Manisekar & K.S.C.Vettivel	

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
12	Axial crush behaviours and energy absorption characteristics of aluminium and E-glass/epoxy over-wrapped aluminium conical frusta under low velocity impact loading	Composite Structures	2016	M. Kathiresan and K. Manisekar	
13	Experimental and statistical analysis on mechanical properties of nano flyash impregnated GFRP composites using central composite design method	Materials and Design, Elsevier	2015	R.Satheesh Raja and K.Manisekar	
14	A New Stable Numerical Method To Find The Change In Angle Of Contact In Angular Contact Ball Bearing Subject To Thrust Load	Journal of the Balkan Tribological Association	2015	M. S. Starvin, K. Manisekar , A. Simon Christopher , K. Selvakumar	
15	Mechanical Properties and Micro-Macro structural Characteristics of Friction Welded Similar Joints of Aluminium Alloys	International Journal of Applied Engineering Research	2015	S R Sundara Bharathi, A.Razal rose,K Manisekar & V.Balasubramanian	
16	Design Optimization of Large Diameter Ball Bearings Using Genetic Algorithms, International Journal of Applied Engineering Research	International Journal of Applied Engineering Research	2015	M.S.Starvin,K. Manisekar, N.Nagasubram	
17	, The effect of manufacturing tolerances on the load carrying capacity of large diameter bearings	Sadhana, Indian Academy of Sciences	2015	M.S.Starvin & K.Manisekar	
18	Study Of Microstructure And Mechanical Properties Of Cast And Forged Al-4.4cu Alloy	IOSR Journal of Mechanical and Civil Engineering	2014	R.Karthikeyan, K.Manisekar, Venkata Subramanian	
19	Experimental Study Of Thermal Contact Resistance In Hardened Bearing Surfaces	Experimental Heat Transfer	2015	SME Babu, K Manisekar, AP Senthil Kumar, D Rajenthirakumar	
20	Composites IJE Transactions A: Basics Composites	IJE Transactions A: Basics	2015	P. Senthil Kumar, K. Manisekar	
21	Study Of Microstructure And Mechanical Properties Of Cast And Forged Al-4.4cu Alloy	IOSR Journal of Mechanical and Civil Engineering	2014	R.Karthikeyan, K.Manisekar, Venkata Subramanian	

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
22	Experimental and Prediction of Abrasive Wear Behavior of Sintered Cu-SiC Composites Containing Graphite by Using Artificial Neural Networks	Tribology Transactions	2014.	P. Senthil Kumar, K. Manisekar & R. Narayanasamy	
23	Dry Sliding wear performance of Cu-Sn Composites Containing MoS ₂ Using Taguchi techniques	J. Balk Tribol Assoc, Book2	2014	P. Senthil Kumar, K.Manisekar, M.Poovaragavan & R.Narayanasamy	
24	Effect of MoS ₂ content on wear behavior of sintered Cu-Sn composite: A Taguchi approach: A comparative study using artificial neural networks	Indian Journal of Engineering & Materials sciences	2014	P. Senthil Kumar & K. Manisekar	
25	Study on mechanical properties of fly ash impregnated glass fiber reinforced polymer composites using mixture design analysis	Materials and Design	2014	R. Satheesh Raja, K. Manisekar & V. Manikandan	
26	Crash worthiness analysis of glass fibre/epoxy laminated thin walled composite conical frusta under axial compression	Composite Structures	2014	M. Kathiresan,K. Manisekar &V.Manikandan	
27	sliding friction and Wear characteristics of Cu-Sn Alloy containing Molybdenum Disulphide	Tribology Transactions	2013	P. Senthil Kumar,K. Manisekar ,E. Subramanian & R. Narayanasamy	
28	Investigation of Microstructure and Mechanical Properties of aluminium hybrid nano-composites with the addition of solid lubricant	Materials and Design	2013	P. Ravindran, K. Manisekar, S. Vinoth Kumar & P. Rathika	
29	Finite element simulation of non- linear deformation behaviour in large diameter angular contact thrust bearing	Scientific Research and Essays	2013	M. S. Starvin, S.Babu, Sriramachandra Aithal, K.Manisekar, & P. Chellapandi	
30	Effect of fly ash filler size on mechanical properties of polymer matrix composites	International Journal of Mining, Metallurgy and Mechanical Engineering (IJMMME)	2013	R.Satheesh Raja, K.Manisekar &V.Manikandan	

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
31	Friction and dry sliding wear behavior of Powder Metallurgy Processed Cu-Tin Alloy with Molybdenum Disulphide Additions: a Factorial Design approach	International Review of Mechanical Engineering	2013	P. Senthil Kumar,& K Manisekar	
32	Tribological behaviour of powder metallurgy processed aluminium hybrid composites with the addition of graphite solid lubricant	Ceramics International	2013	Ravindran, P., Manisekar, K., Narayanasamy, R.& Narayanasamy, P	
33	Tribological properties of powder metallurgy– Processed aluminium self lubricating hybrid composites with SiC additions	Materials & Design	2013	P Ravindran,, K Manisekar, P Rathika & P Narayanasamy	
34	Experimental Investigation of Friction Effect on Linear Model Rolling Bearings for Large Diameter Thrust Bearing Design	Tribology in Industry	2012	S. Babu, K. Manisekar & M.S. Starvin	
35	Performance analysis of fibre metal laminated thin conical frusta under axial compression, Composite Structures	Composite Structures	2012	Kathiresan, M., Manisekar, K.& Manikandan, V	
36	, Application of factorial techniques to study the wear of Al hybrid composites with graphite addition	Materials and Design	2012	Ravindran, P., Manisekar, K.& Narayanasamy, P., Selvakumar, N., Narayanasamy, R	
37	,Prediction and optimization of pulsed current tungsten inert gas welding parameters to attain maximum tensile strength in AZ61A magnesium alloy	Materials and Design	2012	Razal Rose, A., Manisekar, K.& Balasubramanian, V., Rajakumar, S	
38	Influences of tool rotational speed on tensile properties of friction stir welded AZ61A magnesium Alloy, Proceedings of the Inst. of Mech Engineers	Part B: Journal of Engineering Manufacture	2012	Rose, A.R., Manisekar, K.& Balasubramania, V	
39	Wear and mechanical properties of sintered Cu-SnMoS ₂ Powder pre-forms at dry atmospheric condition	European Journal of Scientific Research	2012	Kumar, P.S.,& Manisekar, K	

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
40	Synthesis of porous SiC preform and squeeze infiltration processing of Aluminium-SiC Metal ceramic composites	Materials Science Forum	2012	Sree Manu, K.M., Resmi, V.G., Brahmakumar, M., Anand, N., Rajan, T.P.D., Pavithran, C., Pai, B.C., & Manisekar, K	
41	, Influences of welding speed on tensile properties offriction stir welded AZ61A magnesium alloy	Journal of Materials Engineering and Performance	2012	Razal Rose, A., Manisekar, K.& Balasubramanian, V	
42	Effect of axial force on microstructure and tensile properties of friction stir welded AZ61A magnesium alloy	Transactions of Nonferrous Metals Society of China	2011	Razal Rose, A., Manisekar, K. & Balasubramanian, V	
43	Effect of carbon black and fly ash fillers on tensile properties of composites	Key Engineering Materials	2011	Raja, R.S., Manisekar, K.& Manikandan, V	
44	Finite element analysis and experimental validation on non-linear stiffness of ball bearing	CiiT International Journal of Automation and Autonomous systems	2011	M.S.Starvin, J.Ebenezar Samuel Daniel, & K.Manisekar	
45	Finite element analysis of large diameter bearings subjected to thrust load	CiiT International Journal of Automation and Autonomous systems	2011	M.S.Starvin, A.Simon Christopher & K.Manisekar	
46	Effect of friction on barreling in square and rectangular billets of aluminium during cold upset forging	Materials and Design	2007	Manisekar, K.& Narayanasamy, R	
47	Effect of friction on barreling in square billets of aluminium during cold upset forging	Materials and Design	2006	Manisekar, K.&Narayanasamy, R, Malayappan, S	
48	Some aspects on barreling in solid billets of noncircular Aluminium during cold upset forging with different lubricants	Indian Journal of Engineering and Materials Sciences	2005	Manisekar, K.& Narayanasamy,	
49	Barrelling in square billets of aluminium during cold upset forging under dissimilar friction	Transactions of the Indian Institute of Metals	2005	Manisekar, K.& Narayanasamy, R	
50	Phenomenon of barreling in square billets of aluminium during cold upset forging	International Journal of Advanced Manufacturing Technology	2003	Manisekar, K.& Narayanasamy, R	

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
51	Phenomenon of barreling in square billets of copper during cold upset forging	Journal of the Institution of Engineers, Singapore	2004	Manisekar, K.& Narayanasamy, R	

Research Supervisor & Scholars Details

Sr	Name of the University	Name of the Faculty	Reference No. (Supervisor id Number)	Research Area	Date of supervisor recognition
1	Anna University	Mechanical Engineering	8320223	Mechanical Engineering -Engineering Design	22-08-2006

Sr	Name of the Research Scholar	Date of Registration	Internal or External / Full time or Part Time	Research topic	Present Status
1	Razal Rose A		Internal	Investigations on friction STIR welding of AZ16A Magnesium Alloy	Completed
2	P RAVINDRAN	23-02-2007	External	Tribological Behavior of IRON Based Powder Metallurgy Composite	Completed
3	Senthil Kumar P	23-02-2007	External	Tribological Behavior of Cu-Sn Alloy containing MoS2 Hybrid composite by powder metallurgy route	Completed
4	Starvin M S		External	Study on Load Carrying Capacity of Large Diameter Bearings	Completed
5	S Babu		External	Static and heat Transfer Analysis of Bearing Mock-Up for Big Bearing Applications	Completed
6	M Kathiresan	22-12-2016	Internal	Studies on Crashworthiness characteristics of thin walled conical frusta under axial loading	Completed
7	Satheesh raja. R		External	Influence of Flyash Filler size on Mechanical and Tribological behaviour of GFRP Composites	Completed
8	John Iruthaya Raj M		External	Synthesis Characterization and wear behavior studies of MG/MO, MG/MCA Composites Fabricated by powder Metallurgy Processing Method	Completed

Sr	Name of the Research Scholar	Date of Registration	Internal or External / Full time or Part Time	Research topic	Present Status
9	Mr.K.Thoufiq Mohammed	04-07-2019	Internal	Tribological Behaviour of Magnesium Composites	Pursuing
10	C.Veera ajay		Internal		Pursuing
11	Mr.A.Andrews	02-01-2021	Internal	Vibration-Based Condition Monitoring of Multiple Fault System	Pursuing

Funded Research Project Details

Sr	Name of the Project	Principal Investigator	Co-Investigator	Amount of Fund Received	Funding Agency	Project Duration	Project Starting Date	Project Completion Date	Present Status
1	Design and development of Large diameter bearings for FBR	K Manisekar	M Kathiresan	₹ 21,70,000.00	Board of Nuclear Sciences(BRNS)	3 yrs	20-07-2022	20-11-2022	completed

Product Development Activities

Sr	Product Title	From	To	Funding Agency	Funds Received	IPR Status
1	A Candy Making Machine	01-07-2018	31-03-2019	New Generation Innovation and Entrepreneurship development centre	₹ 2,50,000.00	Granted
2	DEVELOPMENT OF DEGRADING MACHINE TO DISPOSE THE NON-BIODEGRADABLE PLASTIC WASTE	01-07-2019	31-03-2020	Newgenartion Innovation and Entrepreneurship development Centre	₹ 2,50,000.00	Filed
3	ONION SKIN PEELER	01-07-2021	31-03-2022		₹ 2,50,000.00	

Membership in Professional Societies

Sr	Name of the Society / Organization	Type of Membership	Membership ID
1	ISTE-LM	Life member	12113 / 1992
2	society for manufacturing Engineers	Life Member	FMSME01005 / 2005
3	Institution of Engineers	Member	F-112982-8 / 2008
4	Society for Failure analysis	Life Member	

Book / Book Chapters Published

Sr	Name of the Book	Name of the Chapter	Authors	Publisher	ISSN Number	Year of Publication
1	Proceedings of Second International Conference	Recent Advances in Material Processing technology	Dr. S.L.Manan, Dr.K Manisekar,, Dr G Selvakumar	Society of Manufacturing Engineers	ISBN 978-81-904334-1-9	
2	Proceedings of Third International Conference	Recent Advances in Material Processing technology	Dr. S.L.Manan, Dr.K Manisekar,, Dr G Selvakumar	Society of Manufacturing Engineers	ISBN 978-81-904334-2-6	
3	Advanced Engineering Research and applications	Dual objective Design Optimization of Large Diameter Ball Bearing Using genetic Algorithm	M S Starvin and K Manisekar	Research India Publishers	(ISBN: 978-93-87374-54-6)	2018