

CURRICULUM VITAE

Dr. L.A. KUMARASWAMIDHAS

Professor

Department of Mechanical Engineering

Indian Institute of Technology (Indian School of Mines)

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https://www.iitism.ac.in/index.php/faculty/faculty_detail#



ABOUT ME

I am an excellent, energetic, enthusiastic, academician, researcher and administrator with 20+ years. Commitment to helping students to develop their full potential in their studies. Strong philosophy of teaching, and knowledge of many different methods to motivate students to develop their expertise in specific areas. Published over 130+ articles in peer-reviewed journals and one of the technical committee members in Bureau of Indian Standards (BIS), Earth Moving Equipment and Material Handling Sectional Committee. The goal to achieve consistent successes as an educator, researcher and administrator with excellence.

RESEARCH INTEREST

Mining Machinery Design, Design of Automotive System, Vehicle Dynamics, Whole Body Vibration, Flow Induced Vibration, Condition Monitoring, Ergonomic Design, Modelling and Simulation, Industrial Safety, Material Design and Structural Joints.

EDUCATION

- Ph.D.** (*Specialization : Vehicle Dynamics*)
Anna University, Chennai, India (2008).
Thesis title: Computer Simulation of Railway Vehicle to Analyze Lateral Stability Response and Sensitivity
 Supervisors: **Prof. P.Mannar Jawahar, Ex Vice Chancellor, Anna University**
 (Thesis Submitted: Dec. 2007; PhD Awarded: Aug. 2008)
- M.Tech.** (*Specialization : Engineering Design*) CGPA 7.38
Bharathiar University, Tamilnadu, India (July 2000 - June 2002)
Thesis title: Statistical analysis on factors influencing temperature distribution in worm gearbox
 Supervisor: **Prof. P R Thyla**
- B.Tech.** (*Mechanical Engineering*)
Bharathiar University, Tamilnadu, India (July 1995 - June 1999)

PROFESSIONAL EXPERIENCE

University/ Organisation	Designation	From	To	Total Period	Nature of duty
Indian Institute of Technology (ISM), Dhanbad	HOD, MME	25.07.2017	28.04.2022	4 Year 9 Months 3 Days	Teaching, Research and Consultancy
Indian Institute of Technology (ISM), Dhanbad	Professor GP: Rs. 10,500/-	17.08.2023 (AN)	Cont....	0 Year 0 Months 7 Days	Teaching, Research and Consultancy
Indian Institute of Technology (ISM) Dhanbad	Associate Professor GP: Rs. 9,500/-	27.08.2012	17.08.2023 (FN)	8 Years 6 Months 1 Days (as on 28.02.2021)	Teaching, Research and Consultancy
National Institute of Technology, Tiruchirappalli	Assistant Professor GP: Rs. 8,000/-	08.06.2006	24.08.2012	6 Years 2 Months 16 Days	Teaching and Research

Anna University, Chennai	Teaching Research Associate	27.09.2002	07.06.2006	3 Years 8 Months 10 Days	Teaching
BHARAT INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI	Lecturer BETTER OPPORTUNITY	27.02.2002	26.09.2002	7 Months	Teaching

COURSES TAUGHT

Under Graduate Level:

- Automobile Engineering
- Kinematics and Dynamics
- Mining Machinery I and II
- Engineering Mechanics
- Engineering Drawing
- Machine Drawing
- Dynamics of Machinery
- Vehicle Dynamics
- Heavy Earth Moving Machinery- I & II

Post graduate Level:

- Opencast Mining Equipment
- Theory of Vibration
- Diagnostic Maintenance and Condition Monitoring

Involvement in Laboratory development

- Mining Machinery Laboratory
- Automobile Engineering Laboratory

R & D PROJECTS

Sl.No	Project Title	Sponsoring Agency	Project No.& Date	Project value in (Lakh)	Status / roll
1.	Experimental Investigation on Flow Induced Vibration of Elastically Mounted Bluff Bodies	DST, Govt. of India	SB/FTP/ETA-389/2012	17.40	Completed as PI
2.	Design of Cost Effective Flow Sheet for Improved Washing Efficiency of Indian Coking and Non-Coking Coals	Coal India Limited	CIL (7)/2017-18/514/FME	1212.98	Ongoing
3.	Design of energy efficient hydraulic drives for mining equipment components	DST, Govt. of India	DST(FIST) (228)/2019-2020/642/MME	165.00	Ongoing as Chairman
4.	Investigation into The Planning and Design Aspects Governing the Selective Coal Cutting Technology Using Surface Miner for Various Rock Conditions for Clean Coal Production	DST, Govt. of India	Sanction Order No.: TMD/CERI/Clean Coal/2017/07 (G) Dated 14.06.2019	337 + 34(L&T)	Ongoing as Co - PI
5.	Analysis of Operator's field of view of Normet Equipment: Visibility from cabin as per IS/ISO 5006:2017	M/s Normet India Private Limited, Jaipur	NORMET/2021-22/864/MME	10.62	Ongoing as PI

PATENT EARNED

Sl.No	Patent Title	Patent No.	Agency/Country	Status
1.	Surge Supporter (An Alternative Power Supply System for an Automobile)	2409/C HE/2012	India	Published
2.	A Method of Preventing Bacterial Disease from Domestic Sewage Water and of Generating Electricity from the same	201631010314	India	Published
3.	Method of controlling an idling stop mechanism, idle mode controller and passenger vehicle thereof	201841023246	India	Published
4.	A Multi-mode portable power bank with flexible solar panel	201741041946	India	Published

5.	A Fiber Reinforced Polymers (FRP) composite material and methods thereof	201931006297	India	Published
6.	Mileage Monitoring device for vehicles	201841003225	India	Published
7.	A Printing Device Embedded with a Laptop System and Methods Thereof	202221026643	India	Published

BOOK PUBLICATIONS

Sl.No.	Type	Title of Book / Book Chapter	Author(s)	Publisher	Date of Publication	ISSN No.	DOI Link	Before or Since Last Promotion
1.	Book	Engineering Graphics	L.A.Kumaraswamidhas j. Bensam Raj	Tri Sea Publishers	10-Dec-2015	9788190927895	<i>Nil</i>	Since Last Promotion
2.	Book	Fluid-Structure Interaction	K.Karthik Selva Kumar, L.A.Kumaraswamidhas	Research India Publications	21-Mar-2017	97893866138675	<i>Nil</i>	Since Last Promotion
3.	Book Chapter	Sustainable coating design and role of liquid-mediated contact, Pollutants from energy sources, and their control	R. K. Upadhyay L.A. Kumaraswamidhas	Springer, USA.	02-Nov-2018	978-981-13-3281-4	https://doi.org/10.1007/978-981-13-3281-4_16	Since Last Promotion
4.	Book Chapter	Bearing failure issues and corrective measures through surface engineering (Chapter 11)	Ram K. Upadhyay L.A.kumaraswamidhas	Butterworth Heinemann is an imprint of Elsevier	04-May-2018	978-0-08-101928-3	https://doi.org/10.1016/B978-0-08-101928-3.00011-2	Since Last Promotion
5.	Book Chapter	Wake interaction Using Lattice Boltzmann Method (Chapter 7)	K.Karthik Selva Kumar, L.A.Kumaraswamidhas	IGI Global	01-May-2018	1522547606	DOI: 10.4018/978-1-5225-4760-0.ch007	Since Last Promotion
6.	Book Chapter	Numerical Investigation of Subsonic Flow Past a Flat Plate Aerofoil	Shailesh Kumar Jha, S. Narayanan and L. A. Kumaraswamidhas	Applications of Fluid Dynamics, Springer, Singapore	05-Nov-2017	978-981-10-5329-0	https://doi.org/10.1007/978-981-10-5329-0_17	Since Last Promotion
7.	Book Chapter	Experimental and Numerical Procedure for Studying Effect of Ultrasonic Spot Weld Parameters on Metal Joints for Electronic Components	N. Mohan Raj L.A.Kumaraswamidhas. Arungalai VendanK. A. Ramesh KumarLiang GaoSurinder SinghHarpreet	Springer, Singapore	11-Sep-2019	978-981-32-9099-0	https://doi.org/10.1007/978-981-32-9099-0_2	Since Last Promotion

			SinghXiaodong NiuAkhil Garg					
8.	Book Chapter	The Effect of Friction Induced Noise, Vibration, Wear and Acoustical Behavior on Rough Surface: A Review on Industrial Perspective	SK Tiwari, LA Kumaraswamid has	Springer, Singapore	10-Dec-2021	978-981-16-8337-4	https://doi.org/10.1007/978-981-16-8337-4_8	Since Last Promotion
9.	Book Chapter	Mechanical Properties and Characterization on AA 2618 Metal Matrix Reinforced With Si3N4, AlN and ZrB2 Insitu Composites	N. Mathan Kumar, N. Mohan Raj, S. Kannan, L. A. Kumaraswamid has	ANVI Books & Publishers	8-May 2019	978-81-941281-8-2	https://www.manglampublications.com/product/merging-trends-in-mechanical-computing-and-electrical-sciences/	Since Last Promotion
10.	Book Chapter	Strategies and Implications of Noise Pollution Monitoring, Modelling, and Mitigation in Urban Cities	S. K. Tiwari, L. A. Kumaraswamid has and N. Garg	Springer	07-Feb-2023	978-981-19-1550-5	https://doi.org/10.1007/978-981-19-1550-5_86-1	Since Last Promotion

TECHNICAL COMMITTEE MEMBER

Sl.No.	Event	Venue
1.	International Conference on Innovative Trends in Science, Engineering and Management 2014 (ICITSEM 2014)	Dubai
2.	International Research Conference on Engineering, Science and Management 2014 (IRCESM 2014)	Dubai.
3.	2 nd International Conference on Mechanical, Automotive and Materials Engineering (CMAME 2014)	Dubai
4.	8 th International Research Conference on Engineering, Science and Management 2017 (IRCESM 2017),	Dubai.

PROFESSIONAL BODIES MEMBERSHIP

Sl.No.	Organization	Membership
1.	The Institution of Engineers (IE India)	Fellow
2.	Operation Research Society of India (ORSI)	Life Member
3.	National Institution for Quality and Reliability (NIQR)	Life Member
4.	Indian Society for Technical Education (ISTE)	Life Member

5.	Tribology Society of India (TSI)	Life Member
6.	Indian Welding Society(IWS)	Life Member
7.	Society for Automotive Engineers (SAE INDIA)	Annual Member

RESEARCH SUPERVISION: DOCTORAL LEVEL

Sl.No.	Roll No.	Name	Title	Year/Status
1.	411108053	P. Velmurugan	Mathematical Modelling and Experimental analysis of Tractor Semi Trailer Vehicle for Improving the Ride Comfort.	2009 -2012 Awarded
2.	2012DR0162	R. K. Upadhyay	A Study on Tribological and Mechanical Properties of Tool Steel Coated with Monolayer-Multilayer Thin and Hard Nitride Films through Physical Vapour Deposition Process	2012 -2015 Awarded
3.	2013DR0082	K. Karthik Selva Kumar	Experimental and Numerical Investigation On Flow Induced Vibration Excitation In Elastically Mounted Circular And Square Structures	2013 - 2017 Awarded
4.	2013DR0230	Dipen Kumar Rajak	Experimental investigation on energy absorption behaviour of Aluminum alloy foam-filled thin walled structure at various loading conditions	2013 - 2017 Awarded
5.	2014DR1119	N. Mathan Kumar	An Investigation of Wear Behaviour and Material Removal rate of AA2618 MMC reinforced with Si ₃ N ₄ , AlN and ZrB ₂ insitu composites	2014 - 2018 Awarded
6.	2014DR1118	N. Mohan Raj	An Investigation On Ultrasonic Welding of Al-Al, Cu-Cu and Al-Cu Non Ferrous Materials	2014 - 2019 Awarded
7.	2014DR1024	S. Kannan	A Study on Tube to Tube Plate Using Friction Welding and Tig Welding Process	2014 -2019 Awarded
8.	2013DR1092	D. Raguraman	Investigation on Friction Stir Welding of A6061-AZ61A	2013 -2020 Awarded
9.	2014DR1128	E. Radhakrishnan	Mechanical Characterization of Admiralty Brass Tube and Aluminium Alloy Plate Joint Fabricated By Friction Stir Spot Welding	2014 - 2020 Awarded
10.	2014DR1127	Thangapazham P	Design and analysis of suspension system in heavy duty commercial vehicles	2014 - 2020 Awarded
11.	2016DR0127	Chidambara Raja S	Collective parametric modelling of multi-phase system for the computation of effective thermal conductivity	2016 -2021 Awarded
12.	2015DR0044	Shailesh Kumar Jha	Investigations on flat plates and NACA airfoils with different trailing edge configurations: Flow and Acoustic Characteristic	2015 -2021 Awarded
13.	2016DR0222	Naval Kishore Upadhyay	Synthesis and characterization of cost-effective silicon-based thermoelectric material for harnessing waste-heat of automotive and mining machinery	2015 - 2021 Awarded
14.	2015DR1129	Jasveer Singh	Investigation of Effective Area and Distortion Coefficient of Pneumatic Piston Gauge Using Different Simulation technique	2015 - 2021 Awarded
15.	2015DR0251	Rakesh Kumar	Investigations into Rate of Penetration and Vibration of Drill Machines in Surface Mines for Performance Optimization	2015 - 2021 Awarded
16.	2015DR0250	Kundan Bharti	Finite Element Method Based Stress and Failure Analysis of FRP Composite Structural Joints Subjected to Mechanical Loading	2015 - 2021 Awarded
17.	2015DR0148	Prem Shankar Kumar	Condition Monitoring, Intelligent Health Assessment and Residual Life Estimation of Rolling Element Bearing	2015 - 2021 Awarded
18.	2017DP0169	A Agasthian	Hybrid data Mining Techniques for Performance Monitoring of Wind Turbine Systems	2017 – 2022 Awarded

19.	2014DR0164	Chandan Kumar	Investigations into the Design and Operating Parameters of Surface Miner for Performance Optimization	2015 – 2022 Awarded
20.	2016DR0172	Kaviraj. R	Investigation on Human Response to Vibration and Its Effect on HEMM Operator Physiological Work Stress Factors	2016 – 2022 Awarded
21.	2017DP0329	Suresh Kumar G	Investigation of Integrated Functionality and Durability of Vehicle Suspension System	2017 – 2022 Awarded
22.	2014DR1161	Rakesh Prasad	Study on drying and induration characteristics of iron ore pellet	2014 – 2023 Awarded
23.	2017DP0309	Y Thooyavan	Development and Characterization of Sic/basalt Fiber Reinforced Functionally Graded Polymer Composites	2017 - 2023 Awarded
24.	2017DR0642	Shashikant Tiwari	Investigations on long-term and short-term noise monitoring strategies for noise impact assessment in urban and mining environment	2017 Ongoing
25.	2021DR0059	Hemant Kumar	Design and development of efficient rock cutting technology	2022 Ongoing
26.	2022DR0170	Janathul Basha	Design and development of new ventilated operator seat	2022 Ongoing

PROJECT SUPERVISION: PG LEVEL

Sl.No	Reg. No	Name	Title	Year
1.	21MT0293	Prem Kumar	Design and fabrication of visibility analysis test setup as per ISO 5006 – 2017 and evaluation of operator visibility for underground mines vehicles	2022
2.	21MT0340	Rohit Lohani	Optimization of Design Parameters to Improve the Performance of Passive Suspension System	2022
3.	21MT0207	Maharana Pratap Singh	Design optimization of unique expansion chambered muffler using Finite Element Analysis for HEMM.	2022
4.	2017MT002200	Jothi Prakash	UAV Photogrammetry to analyse the accuracy of digital elevation model	2018
5.	2017MT001661	Kakkum Perumall	Performance Improvement Of Magenotorheological Fluid For Damper Application	2018
6.	2017MT001708	Raj Kishor Thakur	Parametric optimisation of surface miner cutting drum statistical and numerical approach	2018
7.	2015MT0648	Anand Kumar	Design and numerical analysis of headgear structure using STAAD.pro v8i	2017
8.	2015MT0534	Ratul Ghosh	Design and Optimize the action of mine ventilation fan in order to increase energy efficiency	2017
9.	2014MT0152	SambitSahu	A study to minimize the crash energy absorption efficiency of various composite section using ANSYS	2016
10.	2014MT0024	Amritanshu Raushan	Design and performance analysis of axial flow fan	2016
11.	2013MT0065	Murlidhar Kumar	Failure analysis of belt conveyor system	2015
12.	2013MT0347	Sandeep Kumar Sahoo	Assessment study of drilling performance of blast hole drills in surface mines	2015
13.	2012MT0181	Chandra Prakash Yadav	Design and performance analysis of axial fan by CFD simulation	2014
14.	2012MT0081	Satya Narayan Kumar	Numerical analysis of mine truck's bumper during collision using ANSYS	2014
15.	311909004	Aditya Kumar Pandey	Analysis of Flow Induced Vibration in 2 nd pass of coal fired boilers, with computational methods.	2012

16.	311911001	M.Elamparuthi	Fatigue Life Evaluation of Super Critical Boiler Components Based on ASME and EN Codes using ANSYS	2012
17.	211309032	S.K. Rahaman Basha	Analysis Of Flow-Induced Vibration In An Elastically Mounted Circular Cylinder Using CFD	2011
18.	211308012	J. Raghu	Numerical analysis of flow induced vibration in an elastically mounted circular cylinder	2008
19.	MEA0612	Hasan Shaik	Stress analysis of Flex plate	2007
20.	MEA0505	P. Sampath Kumar	Determination of stress distribution in Non-Circular Pipe Bends	2007
21.	200255206	M.Muthukumar	Design and analysis of start-up system components of super critical boilers using computational methods	2006
22.	200355302	K. Subramanian	Design and optimization of spiral to vertical wall transition & support components for once through boiler using computational methods.	2006

**ADMINISTRATIVE ROLE (AT IIT(ISM),
DHANBAD)**

Sl. No	Position	Department / Section	Institute	Period	
1.	Faculty In Charge	Electrical Mobility Club	IIT(ISM) Dhanbad	11 th Apr 2022	Till date
2.	Head of the Department	Mining Machinery Engineering	IIT(ISM) Dhanbad	25 th Jul 2017	28 th Apr 2022
3.	Departmental faculty screening committee (DFSC) Chairman	Mining Machinery Engineering	IIT(ISM) Dhanbad	12 th Jul 2018	28 th Apr 2022
4.	Departmental faculty screening committee (DFSC) External Member	Mechanical Engineering	IIT(ISM) Dhanbad	09 th Jan 2019	28 th Apr 2022
5.	Course Coordinator (For M.Tech. Program)	Mining Machinery Engineering	IIT(ISM) Dhanbad	11 th Mar 2013	14 th May 2018
6.	Department Placement Co-ordinator	Mining Machinery Engineering	IIT(ISM) Dhanbad	26 th Mar 2013	20 th Apr 2015
7.	Coordinator	TEQIP-III	IIT(ISM) Dhanbad	20 th Jul 2018	03 rd Dec 2018
8.	Co-Coordinator	TEQIP-III	IIT(ISM) Dhanbad	28 th May 2018	19 th Jul 2018
9.	Research task force Member	IIT(ISM)	IIT(ISM) Dhanbad	27 th Apr 2017	9 th Apr 2018
10.	BOCS Member MME Department	Mining Machinery Engineering	IIT(ISM) Dhanbad	1 st Mar 2015	28 th Feb 2018
11.	Warden	AMBER Boys Hostel	IIT(ISM) Dhanbad	1 st Jun 2013	31 st May 2018
12.	Coordinator	Academic Cell	IIT(ISM) Dhanbad	26 th Jun 2018	25 th Jun 2019
13.	Institute GATE Coordinator (TEQIP-III)	IIT(ISM) Dhanbad	IIT(ISM) Dhanbad	06 th Feb 2017	20 th Jul 2017
14.	Academic Review Committee(ARC) Member	IIT(ISM) Dhanbad	IIT(ISM) Dhanbad	23 rd Apr 2016	20 th Jul 2017

15.	B.Tech. MME Final Year Faculty Adviser	IIT(ISM) Dhanbad	IIT(ISM) Dhanbad	08 th Oct 2012	14 th May 2018
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ADMINISTRATIVE ROLE (PREVIOUS)

Sl. No	Position	Department / Section	Institute	Period	
1.	Warden, Garnet A Hostel NIT Trichy	NIT Trichy	NIT Trichy	10 th Aug 2006	24 th Aug 2012
2.	Joint Secretary	Officers club	NIT, Trichy	14 th Feb 2007	24 th Aug 2012

CO-CURRICULAR AND EXTRA CURRICULAR RELATED ACTIVITIES

1.CONFERENCES / SEMINARS / WORKSHOPS /SYMPOSIA (ATTENDED)

Sl. No	Event	Venue	Period
1.	Presented paper in 23 rd International Congress on Sound and Vibration (ICSV23) at Athens, Greece organized by the International Institute of Acoustics and Vibration (IIAV)	Athens	10 th – 14 th Jul 2016
2.	Presented paper in International conference on International Conference on Chemical, Metallurgy and Material Science Engineering (CMMSE-2015),	Thailand	10 th -11 th Aug 2015
3.	Presented paper in International conference on Innovative trends in Science Engineering and Management-14	Dubai	12 th -13 th Feb 2014
4.	Presented paper in International Conference on Mechanical and Industrial Engineering-World Academic of Science, Engineering and Technology,	Singapore	28 th – 30 th Sep 2011.
5.	MHRD sponsored Two-week workshop on “Thermodynamics and Mechanical Engineering”	IIT, Bombay	14 th -24 th Jun 2011
6.	Michelin tyres sponsored Two-day workshop on Michelin “Challenge Bibendum”	Michelin Tyres, Berlin	17 th -22 nd May 2011
7.	AICTE-MHRD sponsored shot term courses on “Quantitative Research Techniques for Engineers and Researchers”	NIT, Trichy	21 th Dec 2009-02 th Jan 2010
8.	Attended two-day course on “Material and Metallurgy for Engineering”	IITM, Chennai	27 th -28 th Nov2009.
9.	AICTE-MHRD sponsored Staff Development Programme on “Applied Mechanical Measurements”	NIT, Trichy	29 th Jun -11 th Jul 2009
10.	AICTE-MHRD sponsored shot term courses on “Recent Advances in modelling and Simulation of Joining of Materials”	NIT, Trichy	29 th Dec2008 -10 th Jan 2009
11.	AICTE-MHRD sponsored shot term courses on “Composite Materials: Processing Challenges and Opportunities”	NIT, Trichy	13 th -24 th July 2008
12.	TEQIP sponsored one-month research training in Laboratory of Automotive engineering, Helsinki University of Technology, Finland under Prof. Matti Juhala	Finland	22 nd May-16 th Jun 2008
13.	AICTE sponsored shot term courses on “Recent Trends in Advanced Manufacturing”	NIT, Trichy	18 th -22 th Mar 2008

14.	TEQIP sponsored nine-day workshop on “Workshop on Composite Materials”	NIT, Trichy	17 th -25 th Jan 2008
15.	QIP sponsored short term courses on “Energy Conservation Measures for Manufacturing and Process Industries”	NIT, Trichy	10 th -14 th Dec 2007
16.	TEQIP sponsored Two-day workshop on “Computational Fluid Dynamics”	NIT Trichy	17 th -18 th Sep 2007
17.	AICTE sponsored one-month training program undergone at Ashok Leyland product development division	Chennai	01 st Jun –30 th Jul 2007
18.	QIP sponsored short term courses on “Innovative Mechanical Design”	IIT, Bombay	15 th -19 th May 2007
19.	QIP sponsored short term courses on “Computer Hardware & Networking Technologies”	NITTTR Chennai.	05 th -9 th May 2007
20.	International Conference on Manufacturing Technology – Realms Ahead Mantra2007	NIT, Trichy	12 th – 13 th Apr2007
21.	5 th International conference on trends in Industrial Measurements and Automation	NIT, Trichy	4 th Jan 2007
22.	QIP sponsored short term courses on “Instructional Design and Delivery System”	NITTTR Chennai.	20 th Nov- 2 nd Dec 2006
23.	Faculty Development program conducted by Accenture and Anna University on “Software Quality”	Anna University, Chennai	25 th - 26 th Aug 2006
24.	QIP sponsored short term courses on “Advanced Processing of Composite Material”	IIT, Roorkee,	24 th -28 th Jun 2006
25.	TEQIP sponsored Two Days National seminar on “Electronic Engine Management System”	MIT, Anna University, Chennai	10 th -11 th Apr 2006
26.	UGC sponsored refresher Course on “Mechatronics”	MIT, Anna University, Chennai	22 nd Nov- 11 th Dec 2004
27.	Faculty Development program on “Re-Engineering Teaching Communication Skills”	Anna University, Chennai	09 th -10 th Feb 2004

2. TRAINING PROGRAM (CONDUCTED)

Sl.No	Event	Coordinator	Period
1.	Mine training Program for the executives of Apollo Tyres Ltd.	Dr. D. P Mishra and Dr. L. A. Kumaraswamidhas	23.09.2019 to 25.09.2019
2.	Condition Based Maintenance of Equipment	Dr. L. A. Kumaraswamidhas Dr. Thanmay Dutta (Co)	27.05.2019 to 31.05.2019
3.	Five weeks intensive training programme for executives of E & M Cadre of Coal India Limited.	Dr. L. A. Kumaraswamidhas	04.05.2018 to 07.06.2018
4.	Condition Based Maintenance of Equipment	Dr. L. A. Kumaraswamidhas Dr. Thanmay Dutta (Co)	24.08.2018 To 28.08.2018
5.	Five weeks Intensive Training Programme for Executives of E & M Cadre from CIL	Dr. L. A. Kumaraswamidhas	15.10.2018 to 16.11.2018

6.	Intensive Training Programme for Executives of (E & M) cadre of Coal India Ltd.	Dr. L. A. Kumaraswamidhas	06.08.2018 to 07.09.2018
7.	Intensive Training Programme for Executives of (Excavation Cadre) of Coal India Ltd.	Dr. L. A. Kumaraswamidhas	25.06.2018 to 27.07.2018
8.	Five weeks Intensive Training Program for Executives (E & M Cadre) from CIL.	Dr. L. A. Kumaraswamidhas	14.05.2018 to 15.06.2018
9.	Five weeks Intensive Training Program for Executives (Excavation Cadre) of CIL.	Dr. L. A. Kumaraswamidhas	09.04.2018 to 11.05..2018
10.	Condition Based Maintenance of Equipment	Dr. L. A. Kumaraswamidhas Dr. Thanmay Dutta (Co)	12.06.2017 to 16.06.2017
11.	Training Course on “Mining Equipment Safety Practices”	Dr. L. A. Kumaraswamidhas Mr. Ajit Kumar (Co)	07.07.2017 to 09.07.2017
12.	Intensive Training Program for Management Trainers of Excavation Cadre of CIL.	Dr. L. A. Kumaraswamidhas	21.11.2016 to 24.12.2016
13.	Intensive Training Program for Management Trainers of E & M Cadre of CIL.	Dr. L. A. Kumaraswamidhas	19.09.2016 to 22.10.2016
14.	Intensive Training Program for Management Trainers of (E&M) (Excavation) Cadre of CIL	Dr. L. A. Kumaraswamidhas	18.07.2016 to 20.08.2016
15.	Intensive Training Program for Management Trainers of Excavation Cadre of CIL	Dr. L. A. Kumaraswamidhas	23.05.2016 to 25.06.2016
16.	Intensive Training Program for Management Trainers of E&M Cadre of CIL	Dr. L. A. Kumaraswamidhas	11.04.2016 to 14.05.2016
17.	Training Course on “Mining Equipment Safety Practices”	Dr. L. A. Kumaraswamidhas Mr. Ajit Kumar (Co)	07.11.2016 to 09.11.2016
18.	Five Weeks Intensive Training Programme for Management Trainees of CIL	Prof. A. K. Mukhopadhyay Dr. L. A. Kumaraswamidhas(Co)	13.05.2016 to 15.06.2016
19.	Training Course on “Mining Equipment Safety Practices”	Dr. L. A. Kumaraswamidhas Mr. Ajit Kumar (Co)	07.12.2015 to 09.12.2015

3. TRAINING PROGRAM (ATTENDED)

Sl. No	Event	Venue	Period
1.	ISM Sponsored Orientation Training Program	Narwapahar Mines, Singhbhum East, Jharkhand	20 th May -15 th Jun 2013
2.	ISM Sponsored Training Program on Surface and Underground Mining Machineries	Putki Balihari Project Colliery, Kusunda, Dhanbad, Jharkhand	17 th Dec–22 nd Dec 2012

4. TECHNICAL EVENTS

Sl.No	Event	Venue	Period
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1.	Accompanied students for participating in BAJA SAE INDIA 2008,2009, 2010 and 2011	Indore	27 th Jan –30 th Jan 2011 25 th Jan –01 st Feb2010 27 th Jun – 04 th Feb2009 24 th Jun –27 th Jun 2008
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5.GUEST LECTURE / CHAIR SESSIONS ACTIVITIES

Sl. No	Event	Venue	Period
1.	International Conference on Chemical, Metallurgy and Material Science Engineering (CMMSE-2015), - An Chairing the session	Pattaya, Thailand	10 th Aug 2015
2.	“Civil and Mechanical Engineering” session in International conference on Innovative Trends in Science, Engineering & Management”- An Chairing the session	Dubai	13 th Feb 2014
3.	Lecture on “Winding System & Safety Features in Underground Mines” to Engineering Trainees and UCIL Supervisors	MTC, Narwapahar, and Jharkhand.	13 th Jun 2013
4.	Lecture on “Automobile Engineering”	Trichy Engineering College, Trichy	26 th Feb 2010
5.	Lecture on Automobile Engineering on Winter Faculty Development Program	Jeppiaar Engineering College, Chennai	12 th Dec2006

6. STUDENT / INSTITUTE ADVISORY MEMBER/ TECHNICAL AND ADMIN. SUPPORT

Sl. No	Event	Venue
1.	Faculty Adviser for SAE India Collegiate Club.	NIT, Trichy
2.	PAC Chairman for 1 Year M. Tech Industrial Safety Engineering 2007-08	NIT, Trichy
3.	PAC Chairman for II Year B.Tech Mechanical Engineering	NIT, Trichy
4.	PG Admission committee member in the year 2007 for M. Tech – Industrial Safety Engineering and Thermal Power Engineering	NIT, Trichy
5.	Establishment Advisor for Automobile Engineering Laboratory	IIT (ISM), Dhanbad
6.	Faculty Adviser for M. Tech Safety Engineering I year Students 2011.	NIT, Trichy
7.	Co-coordinator M. Tech Mining Machinery Engineering program	IIT (ISM), Dhanbad
8.	Faculty adviser of Final Year B. Tech MME students	IIT (ISM), Dhanbad
9.	Advisory Committee Members for Energy Club	Vins Christian College of Engineering Nagercoil.

7.INDUSTRIAL VISITS

Sl. No	Organisation	Place	Period
1.	Madras Atomic Power Station (MAPS)	Kalpakkam,TN	06 th Mar 2009
2.	Bharat Heavy Electrical Limited(BHEL)	Trichy, TN	24 th Oct 2009
3.	Bharat Heavy Electrical Limited(BHEL)	Trichy, TN	04 th Oct 2011
4.	Heavy Engineering Corporation Ltd.,	Ranchi, TN	20 th Dec2016

8.SPORTS

Sl. No	Event	Venue	Period
1.	Faculty Coordinator for volley ball and swimming team Inter NIT Sports event.	NIT, Surathkal	12 th -15 th Dec 2008
2.	Faculty adviser for inter Hostel Tournament '09.	NIT, Trichy	15 th Feb –05 th Mar2009
3.	Faculty Coordinator for participating in “Saarang 2010”	IIT, Chennai	21 st -23 rd Jan 2010
4.	Faculty Coordinator for Indian Cultural Festival Participation	Mahabalipuram, TN	24 th Jan 2010

9. SOCIAL ACTIVITIES

Sl. No	Event	Venue
1.	Active member in tree plantation committee	NIT, Trichy
2.	Regular BLOOD DONAR	-

10. INSTITUTE ESTABLISHMENT AND SUPPORT ACTIVITIES

Sl. No	Event	Venue
1.	Institute furniture purchase Committee Member	NIT, Trichy
2.	Institute Swimming Pool Maintenance Committee Member	NIT, Trichy
3.	Workshops, organization, food, stalls –committees for “Festember 2009”	NIT, Trichy
4.	Institute Stock Verification officer for metallurgical and material Science Engineering Department, NIT Trichy	NIT, Trichy
5.	Returning officer for conduction Office Bearers of students Association election for the academic year 2009 2010	NIT, Trichy
6.	Teacher in charge for CONCETO 13.	IIT(ISM) Dhanbad

OTHER CONTRIBUTIONS:

1. MOU WITH L&T:

1.	Made MoU with L&T for the development of surface miner cutting drum as indigenous technology.
2.	MoU with Normat India and IIT(ISM) for collaborative R&D and technology development.

2. WEBINAR ORGANIZED:

1.	Organized webinar titled “Technical Advancement in Loading Equipment” With M/s VOLVO Construction Equipment on 16.10.2020 as coordinator.
2.	Organized webinar titled “Latest Techniques and practices for Lubrication Reliability” With M/s Minemac Systems Ltd. on 15.09.2020 as coordinator.
3.	Organized Two days’ workshop webinar titled “Propulsion Systems for Electric and Hybrid Vehicles” on 10th and 11th Sep 2021 as coordinator.

3. WEBINAR DELIVERED:

1.	Delivered webinar titled “Maintenance Engineering and Management”, to Anna University, Chennai on 15.07.2020.
2.	Delivered webinar titled “Emerging Technology Used in Opencast Mining Equipment”, NLC India Limited on 28.10.2020.
3.	Delivered webinar titled “Trends in Automotive Technology”, Techno India, Salt Lake, Kolkatta on 03.02.2021.
4.	Delivered webinar titled “Human Response to Vibration in Heavy Earth Moving Machinery”, in Emerging Technology for Heavy Earth Moving Machinery (HEMM)’, Bureau of Indian Standards, New Delhi on 24.09.2021.
5.	Delivered webinar titled “Vibration monitoring and diagnostics - Whole-body vibration perception”, in the Heritage Webinar Series on 20.01.2022.

AWARDS RECEIVED

- ❖ Inder Mohan Thapar Research (IMTR) Awards 2020, Indian Institute of Technology (ISM) Dhanbad, 2020
- ❖ Canara Bank Research Publication Award, Indian Institute of Technology (ISM) Dhanbad, 2018
- ❖ Canara Bank Research Publication Award, Indian Institute of Technology (ISM) Dhanbad, 2017
- ❖ Canara Bank Research Publication Award, Indian Institute of Technology (ISM) Dhanbad, 2016
- ❖ Canara Bank Research Publication Award, Indian Institute of Technology (ISM) Dhanbad, 2015
- ❖ Mother Teresa Excellence Award, Integrated Council for Socio-Economic Progress, 2010
- ❖ International Gold Star Award, Society of Friendship and National Unity, 2006
- ❖ Vikas Rathan Shiromani Award, Society of Friendship and National Unity, 2005

RESEARCH ACTIVITIES

JOURNAL EDITORIAL BOARD MEMBER

Sl.No.	Name of the Journal	Publication
1.	Journal of Automobile Engineering and Applications.	STM Journals
2.	Trends in Machine Design.	STM Journals
3.	International Journal of Applied Research in Engineering and Science (IJARES).	IJARES
4.	International Journal of Engineering and Science (SCOPUS INDEXED).	IJENS
5.	International Research Journal(IRJ).	IRJ
6.	Journal of Advanced Research in Manufacturing, Material Science & Metallurgical Engineering.(JARMMSME).	JARMMSME
7.	International Journal of Mining Science. (IJMS).	ARC
8.	Ultra-Engineer (UE).	UE

JOURNAL REVIEWER

Sl.No.	Name of the Journal	Publication
1.	ISA Transaction	Elsevier
2.	Journal of Alloys and Compounds.	Elsevier
3.	Alexandria Engineering Journal.	Elsevier
4.	Measurement	Elsevier
5.	Materials and Design.	Elsevier
6.	Engineering Science and Technology, an International Journal.	Elsevier
7.	Journal of VibroEngineering	JVE International Ltd.
8.	The Society for Mining, Metallurgy, and Exploration, Inc. Society for Mining, Metallurgy, and Exploration 12999 E. Adam Aircraft Circle Englewood, CO 80112 USA	-
9.	International journal of Engineering Science and Technology	Multi craft, Malaysia
10.	Iranian Journal of Science and Technology	Springer
11.	Journal of Adhesion Science and Technology	Taylor & Francis
12.	International Journal of Mechanical Sciences	Elsevier
13.	Transactions of the Canadian Society for Mechanical Engineering	Canadian Sciences
14.	International Journal of Engineering Systems Modelling and Simulation	Inderscience

RESEARCH PAPERS PUBLICATIONS

RESEARCH PAPERS

Sl.No.	Journals	No of publications
1.	International SCI / SCI-Expanded Journals	135
2.	International & National Journals (<i>Others</i>)	25
3.	International Conferences	11
4.	National Conferences	9

PERSONAL DETAILS

Father's Name : Mr. K. ANNAMALAI
Mother's Name : Mrs. A. LAKSHMI
Date of Birth : 21-04-1978
Place of Birth : Nagercoil, Kanyakumari, T. N
Sex : Male
Marital Status : Married
Nationality : Indian

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Declaration

I, L.A. Kumaraswamidhas, hereby declare that the information contained herein is true and correct to the best of my knowledge and belief.

L.A. Kumaraswamidhas

Dhanbad, Jharkhand
25 August 2023