

MALNAD COLLEGE OF ENGINEERING, HASSAN
ANNUAL CONFIDENTIAL REPORT (ACR) OF FACULTY / HEAD OF THE DEPARTMENT

1. PERSONAL DETAILS

Name: Dr.,Dushyanth Kumar K.R

Qualification: B.E., ME (CIM)., Ph.D., PGDMM., MISTE.,MIE

Designation : Associate Professor

Qualification	University	Institution	Class	Area of Specialization/Title
Bachelor of Engineering	Mysore	Malnad College of Engineering	First Class	Mechanical Engineering
Master of Engineering	Anna university, Chennai	PSG Tech, Coimbatore, Tamilnadu	First Class with Distinction	Computer Integrated Manufacturing
Doctoral Degree	Visveswaraya Technological University (VTU)	SIT., Tumkur, karnataka	-	Efficiency Enhancement of Engineering Enterprises through the application of Lean Supply Chain principles
Address for Communication	Dept. of Mechanical Engineering, Malnad College of Engineering, Post Box. No. 21, Hassan - 573201, Karnataka			
Contact no. and Email id	94819-67374, dkumar1097@rediffmail.com			

2. ACADEMIC TRAINING PROGRAMMES /FACULTY DEVELOPEMENT PROGRAMMES

Sl.No	Programme	Organization / Place	Scheduled Dates	No.of Days
2005				
1	One week work shop on CAD/CAM (TEQIP)	SJCE Mysore	22-27 Aug,2005	07 days
2006				
2	Advanced Tools in Quality Management (TEQIP)	MCE Hassan	2-7 Jan,2006	06 days
3	Three days' workshop on 'CNC machine tools and operation'(TEQIP)	NIE MYSORE	16-18 March,2006	03 days
4	Recent trends and advances in CAD/CAM/CAE' (TEQIP)	MCE Hassan	22-26 May,2006	05 days
5	Basics of CAD/CAM/CAE Tools' (TEQIP)	MCE Hassan	14-19 Aug,2006	06 days
6	Advances in Turbo machines (TEQIP)	MCE Hassan	11-15 sept,2006	05 days
2007				
7	Three days national Workshop on "Industrial Robotics" (AICTE)	AIT, Chikmaglur	27 -29 April , 2007	03 days
8	Workshop on "Virtual instrumentation & Data Acquisition (TEQIP)	NITK, Surathkal	6-7 Sept,2007	02 days
9	Pneumatics & Hydraulics and Electro pneumatics and PLC'S	MCE Hassan	10-12 Sept, 2007	03 days
2008				
10	IPR,R&D,& Funding agencies (TEQIP)	MCE Hassan	09th April 2008	01days
11	Role of Teacher in Character building and Personality (TEQIP)	RIMSE, Mysore	17 -18 June ,2008	02 days
12	The role of A I in Engineering Applications (ISTE-AICTE)	AIT, Chikmaglur	16-24 June ,2008	09 days
13	Faculty awareness camp on entrepreneurship (ISTE-AICTE)	AIT, Chikmaglur	22-24 June ,2008	03 days
2009				
15	Theory and practice of Agile manufacturing (AICTE)	PSGCT Coimbatore	Nov 23 - Dec,6 2009	Two weeks
2010				
17	Quantitative Research Techniques for Engineers and researchers	NIT Tiruchanapalli	Dec 21- Jan 2 2010	Two weeks
2011				
18	Emerging Trends in Energy Sources (ISTE-AICTE)	Gousia College of Engg. Ramanagram	13-24, June, 2011	Two weeks
19	Sensors and Robotics (ISTE-AICTE)	Acharya Institute of Technology	18 th July-1 st Aug ,2011	Two weeks

2012				
20	Logistics & Supply Chain Management for global business excellence- (ISTE-AICTE)	MSRIT, Bng	18 th -30 th june,2012	Two weeks
2013				
21	5 days training programme on “Safety & Health issues in industrial Environment” (TEQIP)	BMS College of Engg. Bangalore	17 th - 22 nd April, 2013	One week
22	Recent advances in Thermal engineering and its applications (RATA-13), (TEQIP)	MCE, Hassan	20-24 , may, 2013	One week
23	Industrial automation-Motors/PLC/MMI/Scada-real time practical approach by SIMS- Bangalore (TEQIP)	Hotel Ayurconty- Munar,kerala	29 th july- 3 rd auagust, 2013	One week
24	One week work shop on “six sigma black belt”	SIT, Tumkur	22-27, July,2013	One week
2014				
25	“Technology for Design, Modeling & production of Composite Structures” (AICTE)	GEC, Hassan	27 January - 8 February	Two weeks,AICTE sponcered
26	“Industrial Automation using PLC” (National level workshop)	Bannari Amman Institute of Technology, Sathyamangalam, Tamil nadu	7- 8, March, 2014	Two days,
27	“Computational Methods and FEA in Mechanical Sciences” (ISTE-PTU)	MadhwaVadiraja Institute of Technology & Management, Bantakal, Udupi	7- 11, July, 2014	One week
28	“Analytical and Numerical Techniques in Applied Mathematics and Engineering” (TEQIP-II Phase)	MCE, Hassan	28 July-02 August, 2014	One week
29	“Essential Skills for Mechanical Engineers” (ESME-14)	MCE, Hassan	1-5, Sept, 2014	One week
2017				
30	“Emerging Techniques in Materials and Manufacturing Process” (TEQIP-II Phase)	MCE, Hassan	Feb 27 – March 02 , 2017	One week
31	“Automation in Manufacturing” (TEQIP-II Phase)	CMTI, Bangalore	March 20- 24, 2017	One week
32	“Industrial Training on applied sensor Technology” (TEQIP-II Phase)	Bosh Rexroth, Bangalore	27 – 28, March, 2017	Two days
33	Advanced Materials & Manufacturing Technology (AM&MT) (AICTE)	Ramaiah Institute of Technology, Bangalore	4 th -16 th , December,2017	Two Weeks

2018				
34	Total Quality Management, (TEQIP-II Phase)	MCE, Hassan	28 th May-1 st June, 2018	One week
35	Industrial Automation & Robotics	Engineering Staff College of India, Hyderabad	6 th -9 th , August, 2018	04 Days
36	Industrial Automation & Robotics	Engineering Staff College of India, Hyderabad	6 th -9 th , August, 2018	04 Days
37	Design of Thermal Systems, (TEQIP-II Phase)	MCE, Hassan	27 th -31 st , August, 2018	One week
2019				
38	Two days national workshop & hands on training on "Recent trends in 3D printing Techniques applied to Automobile Aerospace applications	S.A Engineering College, Chennai	22 nd 22 nd , August, 2019	Two days
39	Design of Thermal Systems, (TEQIP-II Phase)	MCE, Hassan	27 th -31 st , August, 2019	One week
40	Two days national workshop & hands on training on "Recent trends in 3D printing Techniques applied to Automobile Aerospace applications	S.A Engineering College, Chennai	22 nd 22 nd , August, 2019	Two days

3. ACADEMIC PROGRAMMES CONDUCTED/RESPONSIBILITIES

SL.No	Programme	Organizing Department	Position	Year	No of Days/Term
1.	World bank TEQIP one week FDP on "Awareness on Microsoft office tools" under service to community & Economy scheme for the degree level engineering college teachers	Mech.Egg. Dept. MCE, Hassan	Convener	25-29, Sept, 2006	One week
2.	Mechanical engineering Association	Mech.Egg. Dept. MCE, Hassan	Convener	2010-2013	2 Years
4.	CATIA -V5 Solid /Surface Modeling Training Programme to Mechanical Engineering Sciences students With Bangalore MSM Consultancy services	Mech.Egg. Dept. MCE, Hassan	Convener	2011-2014	3 years
5.	IEM students chapter for students	Mech.Egg. Dept. MCE, Hassan	Convener	2012-2014	2 years
5.	Central CAD/CAM Lab and maintenance for the students of Mechanical Engineering Sciences	Mech. Egg. Dept. MCE, Hassan	Coordinator	2012-2016	4 Years
6.	Leo Club Jamboori and Leo service activities	Malnad College of Engineering, Hassan	Convener	2016-Till date	Till date
7.	Technical Talk on "Modeling and analysis of CAD" by M.Girish, MDS consultancy, Bangalore	Mechanical seminar hall	Convener	18-08-2016	One day

8.	Software applications for CAD systems” by Mahesh kumar , Vin design solutions, Bangalore	Mechanical seminar hall	Convener	27-08-2016	One day
9.	Technical Talk on " Composites in Aerospace" by C.R sathya ISRO, Bangalore and satellite launching vehile By shashikumar, HAL , Bangalore	Mechanical seminar hall	Convener	17-08-2016	One day
10.	Internship Training Pprogramme on CATI-V5 modeling software training programme for Mechanical Engg, students (nos.60)	Central CAD/CAM Lab	Convener	14-06-2017 to 15-07-2017	One month
11..	Work shop on Analytical Methods in Engineering Research”	Leo club, Malnad College of Engineering, Hassan	Convener	21-22, march, 2017	Two days
12.	Two day workshop on “Artificial Intelligence”	Leo club, Malnad College of Engineering, Hassan	Convener	16-17, February, 2018	Two days
13.	Workshop on Machine Learning	Leo club, Malnad College of Engineering, Hassan	Convener	16-17, February, 2019	Two days
14.	Being a Great Teacher	Malnad College of Engineering, Hassan	Convener	03-04, November, 2019	Two days
15.	"Modelling and Analysis techniques in Mechanical Engineering"	At Jorhat Engineering College, Assam	Convener	7th -9th, March 2019 ,	3 days
16.	"International conference on Trends in Mechanical Engineering Science"	MCE, Hassan & JCE, Assam	Convener	6-7, September, 2020	3 days

4. RESEARCH PUBLICATIONS

National conferences	Inter-National conferences	National Journals	Inter-National Journals	Total No. of publications
03	12	-	18	33

National Conferences:

- 1) Dushyanth Kumar K.R ‘*Modeling and Manufacturing Tool Simulation and Validation of Fuselage to wing attachment bracket of a typical Light Transport*, on Proceedings of National conference on Advances in Materials and Manufacturing Processes, 5-6 Oct, 2007 at UBDTCE, Davangere, Karnataka, India.
- 2) Dushyanth Kumar K.R ‘*Rejection control of tyre tube valve threads through Advanced ManufacturingTechniques*’ on Proceedings of National Symposium on Advances in Materials and Manufacturing Processes, 24-25April, 2010 at PSG Technology, Coimbatore, TN, India.
- 3) Arpitha G.R., Dushyanth Kumar K.R. ‘*Materials for Medical Applications*’ on Proceedings of National Symposium of Tribology Society of India, 24-25, Feb, 2012 at Malnad College of Engineering, Hassan, Karnataka, India.

International Conferences

- 1) Dushyanth Kumar K.R, 'Concurrent Engineering on Metal Forming' on Proceedings of Inter-National conference on 5th MP3 Materials and Processing Properties., 11-15, Dec, 2006 at Grand Copthorne Water front Hotel, Singapore
- 2) Dushyanth Kumar K.R , Rajeshwar S. Kadadevaramath 'Achieving Productivity Goals through Quality Control Techniques' on Proceedings of International conference on Advanced Materials, Manufacturing, Management and Thermal sciences (AMMMT- 2010), 18-19, Nov, 2010 at SIT, Tumkur, Karnataka, India.
- 3) Dushyanth Kumar K.R , Arpitha G.R., 'Wireless communication in process automation' on Proceedings of International conference on Engineering, Technology and Management (ICETM- 2012), Aug.29-Sept.1, 2012 at Rajeev Gandhi college of Engineering and Technology, Pondicherry, Tamil Nadu.
- 4) Dushyanth Kumar K.R ., Pradeep D.G., 'Automated quality control system' on Proceedings of International conference on ICT Culture in Education (ICTCE), 27-29, September, 2012 at India International center, New Delhi, India.
- 5) Dushyanth Kumar K.R, G.S.Shivashankar, Rajeshwar S. Kadadevaramath 'An Overview of Lean Manufacturing and its Tools' on Proceedings of 54th National Convention & Indian Institution of Industrial Engineering & International conference on 'Paradigms for global Challenges and Opportunities: Vision-2025' 29-31, Oct, 2012 at Nimhans Convention Center, Hosur road, Bangalore, Karnataka, India. Dushyanth Kumar K.R, G.S.Shivashankar, Rajeshwar S. Kadadevaramath 'Application Of Lean Concepts To Supply Chain Management: Review' on Proceedings of international conference on Advanced Materials, Manufacturing, Management and Thermal sciences (AMMMT- 2013), 3-4, May, 2013 at SIT, Tumkur, Karnataka, India.
- 6) Dushyanth Kumar K.R, G.S.Shivashankar, Rajeshwar S. Kadadevaramath 'Improving Product Efficiency Using Lean Concepts with DOEs Techniques ' on Proceedings of international conference on ICAME 2013: International Conference on Automotive and Mechanical Engineering, June 05-06, 2013, World Academy of Science, Engineering and Technology.(WASET-2013), at Avalon Hotel, New York, USA.
- 7) Dushyanth Kumar K.R, G.S.Shivashankar, Rajeshwar S. Kadadevaramath 'Lean supply chain strategies to Small and Medium Enterprises on Proceedings of 7th international conference on Applied business and economics (ICABE-2013), oct, 02-04, 2013 at CUNY John Jay college ,University of Newyork, Manhattan - New York, USA.
- 8) Dushyanth Kumar K.R, G.S.Shivashankar, Rajeshwar S. Kadadevaramath 'Impact on Manufacturing process through Supply Chain Performance Measurement Approaches' on Proceedings of 6th International Conference on "Innovative Trends in Mechanical, Material, Manufacturing, Automobile, Aeronautical Engineering and Applied Physics" (ITMAEAP-2014), 20-21, Dec, 2014 at Jawaharlal Nehru University, New Delhi.
- 9) Dushyanth Kumar K.R., G.S Shivashankar., Rajeshwar S. Kadadevaramath., "Reduction of Process time of a public organization using 5S principles" on Proceedings of International Conference on Recent advances in Engineering Sciences (ICRAES-2016), 8-9, Sept, 2016 at MSRIT, Bangalore, India.
- 10) Dushyanth Kumar K.R., Dr. G.S Shivashankar., Rajeshwar S. Kadadevaramath., "Lean Supply Chain Performance metrics for the better manufacturing process" on Proceedings of International Conference on Advanced Materials, Manufacturing, management and Thermal Sciences (ATTT-2016), 23-24, Sept, 2016 at Siddaganga institute of Technology, Tumkur.
- 11) Dushyanth Kumar., "Desgn and analysis of fixture for flange drilling operation" on Proceedings of International Conference on Emerging trends in Engineering Science and Technology (ICETEST-2019), 13th, July, 2019 at Society for Education, Bangalore.

International Journals

- 1) Dushyanth Kumar K.R., Arpitha G.R., 'Wireless communication in process automation' Int. Journal of Scientific and Engineering Research (IJSER), ISSN 2229 -5518, Vol.3, No.7. (July 2012).
- 2) Dushyanth Kumar K.R., Pradeep D.G., 'A data monitoring using Real time Environment' Int. Journal of Scientific and Engineering Research (IJSER), ISSN 2229 -5518), Vol.3, No.7. (July 2012)
- 3) Dushyanth Kumar K.R., Dr. S. Kadadevaramath., Dr. Edinbarough Immanuel 'Effective product efficiency using advanced manufacturing technique' Int. Journal of Business and Systems Research (IJBSR), Vol.7, No.2, pp.121 -134. (January, 2013).

- 4) Dushyanth Kumar K.R., Dr. G.S Shivashankar , Dr. Rajeshwar S. Kadadevaramath., ‘Complete Evolution and Success Factors of Lean Manufacturing’ International Journal of Theoretical Research and Letters (IJTRL), Vol.1, No.2, pp.24 -28, (February,2013)
- 5) Dushyanth Kumar K.R., Dr. G.S Shivashankar , Dr. Rajeshwar S. Kadadevaramath., ‘New innovative Lean Concepts to Small and Medium Enterprises’ International Journal of Business and economics(IJBE), Vol.4 No.4, pp.1 -16, (April,2013), USA academic star publishing company
- 6) Dushyanth Kumar K.R., Anand. V. Shivashimpi., ‘Android based speech recognition control system for Domestic application’ International Journal of Research in information technology(IJRIT), Vol.1, No.7, pp.133 -144, ISSN: 2001-5569, (July,2013).
- 7) Dushyanth Kumar K.R., G.S Shivashankar., Rajeshwar S Kadadevaramath ‘Impact on Manufacturing Process Through Effective Supply Chain Performance Measurement Approaches’ Journal of Material Science and Mechanical Engineering (IJMSME), Volume 1, Number 2, pp. 118-123, ISSN: 2169-0316. Oct-Dec 2014.
- 8) Dushyanth Kumar K.R., G.S Shivashankar., Rajeshwar S Kadadevaramath ‘Application of value stream mapping in pump assembly process : A case study’ International Journal of Industrial Engineering and management (IJIE&M), Volume 4, No.3, pp. 1-11, 162. doi:10.4172/2169-0316.1000162, Dec.2015.
- 9) Dushyanth Kumar K.R., G.S Shivashankar., Rajeshwar S Kadadevaramath ‘A review on new strategy developments in SMEs for competitiveness’ Merit Research Journal of Environmental Science and Toxicology (MRJES&T), Volume 4, No.2, pp. 6-15, (ISSN: 2350-2266),Feb.2016 (--Indexed with EyeSource Google Scholar J-Gate IF : 2.58)
- 10) Dushyanth Kumar K.R., G.S Shivashankar., Rajeshwar S Kadadevaramath ‘Process Efficiency Improvement in Small Organization through Lean Supply Chain Approach’ International Journal of Business and Management (IOSR-JBM), Volume 18, Issue 6 .Ver. I PP 61-68, e-ISSN: 2278-487X, p-ISSN. (Jun. 2016), Google Scholar J-Gate IF:3.52)
- 11) Dushyanth Kumar K.R., G.S Shivashankar., Rajeshwar S Kadadevaramath ‘Lean Supply Chain Performance Metrics for the better Manufacturing Process’ *Indian Journal of Science and Technology*, Vol 10, Issue11, pp.1-7, DOI: 10.17485/ijst/2017/v10i11/106135, March 2017. (**Impact Value: 5.02 Thomson Reuters "Web of Science" Zoological Record, CAS, EBBSCO,J-GATE, I-Scholar**)
- 12) Dushyanth Kumar K.R Pradeep D.G ‘Advances in Inspection Technology throughMicrocontroller Applications’, International Journal for Innovative Research in Science & Technology (IJIRST), Volume 03, Special Issue 3. (August. 2016), PP 111-113, ISSN (online): 2349-6010.(Thomson Reuters, S-Journal Index, Google Scholar, Research Gate, IF: 7.34)
- 13) Dushyanth Kumar K.R., G.S Shivashankar., Rajeshwar S Kadadevaramath ‘Minimization of work process time using Lean manufacturing tool’ International Journal of Research in Engineering and Technology (IJRET), Volume 05, Special Issue 16. (Sept. 2016), PP 55-62, EISSN: 2319-1163 | pISSN: 2321-7308.(Thomson Reuters, S-Journal Index, Google Scholar, Research Gate, IF: 7.34)
- 14) Dushyanth Kumar K.R., “Wear Protection on Metals through hvof Spray Coating Techniques”, International Journal of Innovative Research in Technology (IJIRT), Volume 4, Issue7, December 2017, pp-775-781, ISSN: 2349-6002. - (Google scholar) Google Scholar, Research gate, Index Copernicus, SCRIBD, IF: 7.34)
- 15) Dushyanth Kumar K.R., “Implementing the VSM Technique in Textile Industry for the Better WIP” International Journal of Research and Scientific Innovation (IJRSI) Volume V, Issue XII, pp-114-119, December 2018 | ISSN 2321–2705. (Google Scholar, Research gateIF: 3.17)
- 16) Dushyanth Kumar K.R., “Productivity improvement with kaizen tool in garment industry” International journal of current engineering and scientific research (IJCESR), ISSN (PRINT): 2393-8374, (ONLINE): 2394-0697, Vol.6, Issue-2, Feb.2019.(Thomson Reuters, Google Scholar, DRJI,IF: 0.28)
- 17) Dushyanth Kumar K.R. “Discrete Event Simulation for Digital Manufacturing Productivity” International Journal of Science and Research (IJSR) ISSN: 2319-7064 (IJCESR), Research, Gate Impact Factor (2018): 0.28 | SJIF (2018): 7.426, Vol.8, Issue-8, Aug. 2019. (Google scholar, Research gate)
- 18) Dushyanth Kumar K.R, Aishwarya Manjunath “Vehicle Speed Controlling with Alcohol and Gas Detection” International Research Journal of Engineering and Technology (IRJET), ISSN 2395-0056, Vol,7, Issue-6, June 2020. (Google scholar, Research gate), IF: 7.52.

International conference Papers presented at abroad levels

1) Dushyanth Kumar K.R, ‘Concurrent Engineering on Metal Forming’ on Proceedings of Inter-National conference on 5th MP3 Materials and Processing Properties., 11-15, Dec, 2006 at Grand Copthorne Water front Hotel, **Singapore.**

2) Dushyanth Kumar K.R, G.S.Shivashankar, Rajeshwar S. Kadadevaramath ‘Improving Product Efficiency Using Lean Concepts with DOEs Techniques ‘ on Proceedings of international conference on ICAME 2013: International Conference on Automotive and Mechanical Engineering, June 05-06, 2013, World Academy of Science, Engineering and Technology.(WASET-2013), at Avalon Hotel, **New York, USA.**

3) Dushyanth Kumar K.R, G.S.Shivashankar, Rajeshwar S. Kadadevaramath ‘Lean supply chain strategies to Small and Medium Enterprises on Proceedings of 7th international conference on Applied business and economics (ICABE-2013), oct, 02-04, 2013at CUNY John Jay college ,University of Newyork, Manhattan - **New York, USA.**

5. PROJECTS GUIDED

Undergraduate (UG)			
Sl. No.	Title of the Project	Technical Stream	Year
1.	Efficiency enhancement in KSRTC regional workshop through Lean Principles	Lean Manufacturing	2011-12
2.	Design and fabrication of E-Trolley	Automation	2011-2012
3.	Weight reduction of Leaf spring using composite materials	Composites	2012-2013
4.	Reduction of throughput time of shaft sleeve by using Lean Tools	Lean Manufacturing	2013-2014
5.	Fabrication of Mechatronics based wheel chair	Mechatronics	2014-2015
6.	Study of Hot corrosion and Microstructure using HVOF spray coating on Nickel based alloy	Materials	2016- 2017
7.	A study on the automation involved in the Metro car Production	Automation	2017-2018
8.	Discrete event simulation for increasing Productivity in Digital Manufacturing	Digital Manufacturing	2017-2018
9.	Design and Analysis of Fixture for Flange Drilling Operation using Screw Jack mechanism (KSCST approved Project)	Design	2018-2019
10.	DGP project	Materials	2019-20 20
Postgraduate PG			
1.	Shape based object recognition and Visual inspection	Automation	2007-2008
2.	Optical design and analysis of composite Leaf springs	Composites	2007-2008
3.	Virtual Prototyping of Robot Arm	Automation	2007-2008
5.	Image processing techniques during inspection	Automation	2010-2011
6.	Data monitoring using PC for real time environment Motion control system	Automation	2011-2012
7.	Motion control system for innova table positioning	Automation	2012-2013
8.	Efficiency enhancement in shop floor through automation	Automation	2012-2013
9.	Android based speech recognition system for domestic applications	Automation	2012-2013

6.	Shape based object recognition and Visual inspection	Automation	2013-2014
7.	Optical design and analysis of composite Leaf springs	Composites	2013-2014
8.	Motion control system for Innova for advanced patient positioning	Automation	2013-2014
9.	Vehicle Speed Controlling with Alcohol and Gas Detection	Automation	2019-2020

6. SANTIONED FUNDING PROJECTS

S.No.	Project Title	Project details Reference No.	Amount sanctioned in Rupees
1.	Design & Analysis of fixture for flange drilling operation using screw jack mechanism	Ref.No. : 42S BE-2820 2018-2019 (KSCST) Bangalore,,	7,000.00

7. APPLIED FUNDING PROJECTS

S.No.	Project Title	Applied Scheme Ref.No.	Amount in Rupees
1.	Enhancing the Product efficiency using Lean manufacturing and supply chain management principles	K-FIST L1 42nd series : 2018-2019	.5,00,000

8. ASSOCIATE LIFE MEMBERSHIPS

Member, Indian Society for Technical Education - MISTE	LM-21516	19th March, 1996
Member, Institution of Engineers(India) - MIE	M-1311836-55	8th Feb,2006