


Name of Teaching Staff	: Dr. K.N. Vijaya Kumar	
Designation	: Professor & Head	
Department	: Mechanical Engineering	
Date of Joining the Institution	: 18.9.2012	
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Google Scholar Link	: https://scholar.google.com/citations?user=czvLp9gAAAAJ&hl=en	
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Qualifications with Class / Grade	: <ol style="list-style-type: none"> 1. Ph.D (Tech.) Mechanical Engg. University of Mumbai, 2008 2. M.E. (Mech.) Machine Design, SPCE with Ist Class (69.00%), 2001. 3. M.E. (Mgmt.) SJCE with Ist Class (61.00%), 1990. 4. B.E. (Mech.) P.D.A.LOE with Ist Class (65.5%), 1987. 5. D.M.E. Govt. Polytechnic, Bellary (71.8 %), 1983. 	
Total Experience in Years	: <ol style="list-style-type: none"> 1. Professor, D.J.Sanghvi College of Engineering from 18-9-2012 till date. 2. Professor & Vice Principal – SIT Lonavala from Jul’2011 to 17-9-2012. 3. Professor & Head SIT Lonavala from Jan’10 to Jul’11. 4. Assistant Professor, Fr. CRCE from May’09 to Dec’09 5. Lecturer (Sl. Grade) Fr.CRCE Jan’98 to Apr’09 6. 6. Lecturer VESIT from Jun’93 to Dec’97. 7. Lecturer Fr. CRCE Jan’93 to Jun’93. 8. Lecture SESCOE Jan’90 to Sep’92. 	
Papers Published in Journal:	: National: <ol style="list-style-type: none"> 1. Dr. K.N. Vijay Kumar, Dr. S.S. Mantha, “Quality improvement in Manufacturing – A Data mining approach” Proceedings of National Conference on Management Science and Practice, IIT Chennai 9-11, March 2007. 2. Dr. K.N. Vijay Kumar, Mr. M. Ravindran, Mr.Rajit R. Nair, “Quality Aspects in Manufacturing a Deodorizer – A Case Study”, Journal of Indian Institute of Industrial Engineering, XXVI No. 9, September 2007, Pg 35-38. 3. Dr. Arun Kumar, Dr. S.S. Mantha, Dr. K.N. Vijay Kumar, Sahij Singh Gadu, “Quality Improvement using Statistical Process Control – A 	

Case Study”, Journal of Indian Institute of Industrial Engineering, XXXVI No. 10, October 2007, Pg 27-31.

4. Gautam V. Divekar, Dr. K.N. Vijay Kumar, Dr. S.S. Mantha, “Rejection Analysis Based on First Pass Yield – A Case Study”, Journal of Indian Institute of Industrial Engineering, XXXVI November 2007, Pg 31-36.
5. Dr. K.N. Vijay Kumar, A D Lonkhande Investigation into feasibility of establishing Remanufacturing Industry, Proceedings of NCTIME 2010, K.K. Wagh college of Engg. 5-6 Oct 2010.
6. KavitaDhanawade, V.K. Sunnapwar, HanamantDhanawade, B.A. Mujawar, Dr. K.N. Vijay Kumar, Thermal analysis of solid and perforated extended surface by forced convection – an overview, JP Journal of heat and mass transfer Vol. 5 No. 2, 2011, pp, 133-147.
7. T.C. Manjunath, Dr. K.N. Vijay Kumar, Suhasini V.K., “Lossless compression in artificial images” Proceedings of VIT National Conference 2012 Recent Advances and Challenges in Engineering and Management” Mumbai, March 2-3 2012.
8. Dr. K.N. Vijay Kumar, Dr. S.S. Mantha, Dr. Arun Kumar, “Measurement System Analysis for Improving Quality – A Case Study”, Journal of Indian Institute of Industrial Engineering, Accepted for publication.
9. Dr. K.N. Vijay Kumar, Dr. S.S. Mantha, Dr. Arun Kumar, “uncertainty in Measurement – A Review”, Journal of Indian Institute of Industrial Engineering, Accepted for publication.

International:

1. Dr. K.N. Vijay Kumar, Dr. S.S. Mantha, Dr. Arun Kumar, “MCUSUM Control Charts for improving Quality”, Proceedings of International Conference on Advanced Manufacturing Technologies, CMERI Durgapur, 29-30, November 2007.
2. Dr. K.N. Vijay Kumar, Suhasini K.V. Spatial, “Data mining application to traffic analysis” Proceedings of International Conference Applications – 2010. Pondicherry, 24-27 Dec, 2010.
3. T.C. Manjunath, Dr. K.N. Vijay Kumar, Suhasini V.K. “Simulation of a Shortest Path using Pixel Method in Robotics Path Planning” International Conference and workshop on Emerging Trends in Technology is published in ICWET2 proceedings with IJCA on March 09, 2012.
4. Dr. K.N. Vijay Kumar, Dhanawade H.S. Thermal Analysis of perforated fin arrays and arrays with cross fin at centre an Overview International Journal of Emerging Technologies and application in Engg., Technology and sciences, ISSN No. 0974-3588, Vol. 4 Issue 2 Page 182-187.

	<p>5. T.C. Manjunath, Dr. K.N. Vijay Kumar, Suhasini V.K. “Control of Stationary Robots using Visual Basic Software” International Conference and workshop on Emerging Trends in Technology is published in ICWET2 proceedings with IJCA on March 09, 2012.</p>
<p>Papers Presented in Conferences</p>	<p>National:</p> <ol style="list-style-type: none"> 1. Dr. K.N. Vijay Kumar, Dr. S.S. Mantha, Dr. Arun Kumar, “Six Sigma and Statistical Methods in R & D and Manufacturing”, 48th National Convention of Multidimensional Concepts and Approaches for Continual Improvement in the E-Millennium, Indian Institute of Industrial Engineering Bangalore, September 29-30 2006 2. Dr. K.N. Vijay Kumar, Dr. S.S. Mantha, Lalit Prasad, “Multivariate capability indices for Quality improvement – A review”, National Conference on Trends in Advance Manufacturing NCAM (2007) at Fr. CRCE Bandra, Mumbai, 19th – 20th October 2007. 3. T.C. Manjunath, Dr. K.N. Vijay Kumar, Suhasini V.K. “Template matching techniques using pattern recognition concepts” National Conference on Computer, Communication and Information Technology (NC3IT 2012) Pandharpur, on 18-19 Feb, 2012. 4. T.C. Manjunath, Dr. K.N. Vijay Kumar, Suhasini V.K. “Development of a jacobian matrix for vertical axes robots” National Conference on Computer, Communication and Information Technology (NC3IT 2012), Pandharpur on 18-19 February 2012. 5. T.C. Manjunath, Dr. K.N. Vijay Kumar, Suhasini V.K. “Separation of foreground & Background objects in image proceedings” VIT National Conference 2012 Recent Advances and Challenges in Engineering and Management, Mumbai, March 2-3, 2012. <p>International:</p> <ol style="list-style-type: none"> 1. Dr. K.N. Vijay Kumar, Dr. S.S. Mantha, Dr. Arun Kumar, “Quality Improvement Using Multivariate Statistical Process Control”, International Conference on Quality Management Practices for Organizational Excellence, by ITM and NCQM at ITC Grand Central Parel, Mumbai, 16th & 17th August, 2007. 2. Dr. K.N. Vijay Kumar, Dr. S.S. Mantha, Dr. Arun Kumar, “MEWMA Control Charts for Complex Processes”, International Conference on Advances in Manufacturing Engineering at Manipal Institute of Technology, Manipal, Karnataka 24-26 October 2007. 3. Dr. K.N. Vijay Kumar, Dr. S.S. Mantha, Dr. Arun Kumar, “Measurement system analysis with attribute data – A case study” 9th International Symposium on Management and Quality Control, Indian Institute of Technology, Chennai, November 21-24 2007.

	<p>4. Review of Application of Nitinol in the Manufacture of Bone Staples, Neel Sanghvi, Frank Crasta and Vijaya Kumar N. Kottur, Pg.315-322, Lecture Notes in Mechanical Engineering , Proceedings of International Conference on Intelligent Manufacturing and Automation ISSN 2195-4356 ISSN 2195-4364 (electronic), ISBN 978-981-13-2489-5 ISBN 978-981-13-2490-1 (eBook), https://doi.org/10.1007/978-981-13-2490-1</p> <p>5. Enhancement in Productivity by Integration of 5S Methodology and Time and Motion Study , Rushank Sangani and Vijaya Kumar N. Kottur, Pg. 541-550, Lecture Notes in Mechanical Engineering, Proceedings of International Conference on Intelligent Manufacturing and Automation ISSN 2195-4356 ISSN 2195-4364 (electronic), ISBN 978-981-13-2489-5 ISBN 978-981-13-2490-1 (eBook), https://doi.org/10.1007/978-981-13-2490-1</p>				
Area of Specialization	TQM.WCM				
PhD Guide ? Give field & University	<table border="1"> <tr> <td data-bbox="438 891 699 1003">: <u>Field:</u></td> <td data-bbox="699 891 1497 1003" rowspan="2">University of Pune, University of Mumbai, JJTU, Pecific</td> </tr> <tr> <td data-bbox="438 936 699 1003"><u>University:</u></td> </tr> </table>	: <u>Field:</u>	University of Pune, University of Mumbai, JJTU, Pecific	<u>University:</u>	
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PhDs / Projects Guided	<table border="1"> <tr> <td data-bbox="438 1003 699 1048">: <u>PhDs :</u></td> <td data-bbox="699 1003 1497 1048">2</td> </tr> <tr> <td data-bbox="438 1048 699 1153"><u>Projects at Masters level:</u></td> <td data-bbox="699 1048 1497 1153">4</td> </tr> </table>	: <u>PhDs :</u>	2	<u>Projects at Masters level:</u>	4
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Books Published / IPRs / Patents	: Books (Editors for conference Proceedings on Springer)	<p>ICIMA 2018 https://link.springer.com/book/10.1007/978-981-13-2490-1</p> <p>ICIMA 2020 https://link.springer.com/book/10.1007/978-981-15-4485-9</p> <table border="1" data-bbox="710 392 1492 1075"> <thead> <tr> <th data-bbox="710 392 877 470">Application No.</th> <th data-bbox="877 392 1157 470">Title</th> <th data-bbox="1157 392 1492 470">Application Status</th> </tr> </thead> <tbody> <tr> <td data-bbox="710 470 877 616">318122-001</td> <td data-bbox="877 470 1157 616">Fire extinguishing equipped life-saving drone.</td> <td data-bbox="1157 470 1492 616">Design Accepted and Published, Journal No is 39/2020 and Journal Date is 25/09/2020</td> </tr> <tr> <td data-bbox="710 616 877 772">318182-001</td> <td data-bbox="877 616 1157 772">Intake manifold for an air restricted engine</td> <td data-bbox="1157 616 1492 772">Design Accepted and Published, Journal No is 20/2020 and Journal Date is 15/05/2020</td> </tr> <tr> <td data-bbox="710 772 877 929">318351-001</td> <td data-bbox="877 772 1157 929">Spindle for vehicles</td> <td data-bbox="1157 772 1492 929">Design Accepted and Published, Journal No is 20/2020 and Journal Date is 15/05/2020</td> </tr> <tr> <td data-bbox="710 929 877 1075">318352-001</td> <td data-bbox="877 929 1157 1075">Frame of a motorbike</td> <td data-bbox="1157 929 1492 1075">Design Accepted and Published, Journal No is 29/2020 and Journal Date is 17/07/2020</td> </tr> </tbody> </table>	Application No.	Title	Application Status	318122-001	Fire extinguishing equipped life-saving drone.	Design Accepted and Published, Journal No is 39/2020 and Journal Date is 25/09/2020	318182-001	Intake manifold for an air restricted engine	Design Accepted and Published, Journal No is 20/2020 and Journal Date is 15/05/2020	318351-001	Spindle for vehicles	Design Accepted and Published, Journal No is 20/2020 and Journal Date is 15/05/2020	318352-001	Frame of a motorbike	Design Accepted and Published, Journal No is 29/2020 and Journal Date is 17/07/2020
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Professional Memberships	:	ISNDT, Indian Institution of Industrial Engineering ISTE,ISME															
Grants fetched	: Minor Research Grant (University of Mumbai)	<p>1.Funding of Rs.40000 from University of Mumbai for project titled Generation of Tyre Pyrolysis Oil (TPO) and performance testing of it on Diesel Engine</p> <p>2.AICTE funding of Rs 3,51,000 under Modernisation And Removal of Obsolescence (MODROB) for Mechatronics lab.</p>															

Interaction with Professional Institutions	:	<table border="1"> <tr> <td data-bbox="703 226 1002 427">Guest Lectures: Resource Person, STTP- National Board of Accreditation's Self Assessment Report and it's Criteria</td> <td data-bbox="1002 226 1265 427">17 to 21 June 2019</td> <td data-bbox="1265 226 1505 427">VIVA Institute of Technology, Virar</td> </tr> <tr> <td data-bbox="703 427 1002 600">Other Achievements and Responsibilities: Member, Dept Advisory Board</td> <td data-bbox="1002 427 1265 600">-</td> <td data-bbox="1265 427 1505 600">Bharati Vidyapeeth College of Engineering, Navi Mumbai</td> </tr> <tr> <td data-bbox="703 600 1002 734">Session Chair- Role of Engineers in Nation Building (NCRENB 2021)</td> <td data-bbox="1002 600 1265 734">5th March 2021 & 6th March 2021</td> <td data-bbox="1265 600 1505 734">VIVA Institute of Technology, Virar</td> </tr> <tr> <td data-bbox="703 734 1002 869">Member, Dept Advisory Board</td> <td data-bbox="1002 734 1265 869">-</td> <td data-bbox="1265 734 1505 869">St. Francis Institute of Technology, Mumbai</td> </tr> <tr> <td data-bbox="703 869 1002 1003">Member, Dept Advisory Board</td> <td data-bbox="1002 869 1265 1003">-</td> <td data-bbox="1265 869 1505 1003">Thakur College of Engineering and Technology Mumbai</td> </tr> <tr> <td data-bbox="703 1003 1002 1236">Session Chair - The International Conference On Advances In Mechanical And Civil Engineering-2021 (ICAMCE-2021)</td> <td data-bbox="1002 1003 1265 1236">26,27 February 2021</td> <td data-bbox="1265 1003 1505 1236">Thakur College of Engineering and Technology Mumbai</td> </tr> </table>	Guest Lectures: Resource Person, STTP- National Board of Accreditation's Self Assessment Report and it's Criteria	17 to 21 June 2019	VIVA Institute of Technology, Virar	Other Achievements and Responsibilities: Member, Dept Advisory Board	-	Bharati Vidyapeeth College of Engineering, Navi Mumbai	Session Chair- Role of Engineers in Nation Building (NCRENB 2021)	5th March 2021 & 6th March 2021	VIVA Institute of Technology, Virar	Member, Dept Advisory Board	-	St. Francis Institute of Technology, Mumbai	Member, Dept Advisory Board	-	Thakur College of Engineering and Technology Mumbai	Session Chair - The International Conference On Advances In Mechanical And Civil Engineering-2021 (ICAMCE-2021)	26,27 February 2021	Thakur College of Engineering and Technology Mumbai
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Subjects Taught	:	<p>UG Level: Engineering Drawing, IEM, MMC, MTD</p> <p>PG Level: Quality Engineering, Research Methodology, World Class Manufacturing</p>																		
Projects Guided	:	<p>UG Level: More than 30</p> <p>PG Level: More than 4</p>																		
Recommended Students for Higher Education	:	<table border="1"> <tr> <td data-bbox="703 1585 699 1751">Name of the Student More than 60 students for PG level</td> <td data-bbox="699 1585 1505 1751">University/Industry Various Universities across USA, Canada, Germany and Singapore</td> </tr> </table>	Name of the Student More than 60 students for PG level	University/Industry Various Universities across USA, Canada, Germany and Singapore																
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Institute/Department Responsibility handled:	:	<ol style="list-style-type: none"> 1. IQAC Coordinator 2. Admission Coordinator 3. Head of the Department 																		
Pedagogy Development	:	PBL																		