	**Name in Caps: K.P.LAKSHMI** **Designation: Professor** **Qualification: Ph.D** **Email-id: (official) kpl.ece@bmsce.ac.in** **Experience: 21 years** **Teaching experience: 21 years** **Date of Joining this Institution (BMSCE): 24-11-1999 with a break** **<u>Research Interests:</u>** • Research on Materials for sensing applications • Embedded systems for various applications • Research on engineering education
About Your self	**Paragraph (Minimum 10 Lines) –** A passionate teacher eager to disseminate knowledge, highly motivated, dedicated, and innovative with interest in instrumentation, electronics system design and applied physics related domains. Also interested in adopting innovative techniques in teaching-learning process and strongly believe in project based learning. I have over 20 years of teaching experience and 8 years of research experience and have authored around 15 papers and am working on projects related to social needs and in-campus solutions. I am an IEEE senior member and member of ISTE.
	<u>Education:</u> **Doctoral Research: Chalcogenides for Phase Change Memory Applications at IISc.** **Masters: Electronics from VTU** **Bachelors: Instrumentation and Electronics from BU** **Other Degree/Diploma/PG diploma if any -**
	Personal web site/page if any then mention the Webpage link
	Selected Publications **a.** Electrical switching and other properties of chalcogenide glasses, S Asokan, KP Lakshmi, Journal of the Indian Institute of Science 91 (2), 319-330 **b.** Electrical switching in amorphous Si–Te–Ge thin films: Impact of input energy on crystallization process and switching parameters, KP Lakshmi, S Asokan, Journal of Non-Crystalline Solids 377, 175-178 **c.** Temperature dependence of resistance and crystallization in amorphous $Si_{15}Te_{85-x}Ge_x$ thin films, KP Lakshmi, S Asokan, Journal of Non-Crystalline Solids 376, 94-98

	d. Multi-resistance states in the electrical switching behavior of amorphous Si15Te75Ge10 thin films: Possibility of multi-bit storage, KP Lakshmi, S Asokan, Journal of Non-Crystalline Solids 373, 13-17, 2013 **e.** Dual functional performance of fiber Bragg gratings coated with metals using flash evaporation technique, R Sekar, BN Shivananju, KP Lakshmi, S Asokan, Optical Fiber Technology, 2012 **f.** Transmission line modeling for EM analysis of microstrip patch antenna based on dielectric superstrate, ERCICA 2014, published in Elsevier Conference series Vol 3, May 2014 **g.** Reinventing the functioning of Industrial Training Institutes, K.P.Lakshmi, B K Vinay, MOOC Innovation and Technology in Education (MITE), 3, 2015 **h.** Error-Resilient Video Communication Using AVC over Wireless Networks, Priyanka Katti, Dr.K P Lakshmi, International Journal of Software & Hardware Research in Engineering, ISSN-2347-4890 Volume 3 Issue 4 April, 2015 **i.** Study of Chalcogenides –Properties And Its Applications, K.P.Lakshmi, M.L.Tejaswini, International Conference On Recent Trends In Signal Processing, Image Processing And VLSI (Icrtsiv - 2014) **j.** ARINC 661 Based Graphics Engine for Aircraft Head up Display, Ashwin P Chandran, Vandan Revanur, Apoorva K Shah, Kavya TR Nayaka, Gurusewak Singh, Lakshmi KP, International Journal of Engineering Trends and Technology (IJETT) – Volume 33 Number 5- March 2016 **k.** QR CODE FOR SAFETY AND SECURITY APPLICATIONS, Pragna P Rao, PushpaBai G, Sneha K, K.P.Lakshmi, IJRET: International Journal of Research in Engineering and Technology eISSN: 2319-1163 | pISSN: 2321-7308, Volume: 06 Issue: 05 | May-2017 **l.** Adoption of machine learning for hand written text identification- Manuscript under preparation **m.** A review on research in battery technology and its challenges, accepted for publication in IEEE explore
	Courses Handled/List Electronic Instrumentation Control systems Embedded Systems Microprocessors and controllers Object Oriented Programming Data Structures Real time operating systems

	Additional Responsibilities Department Audit Committee member BOE member BOS member of Department of Instrumentation, SIT, Tumakuru Active member of curriculum design group at BMSCE UG and PG Project reviewer IEEE student branch member during 2016-18 IEEE senior member Involved in industry collaborated projects Publication reviewer for IEEE associated conferences
	Other Information: Funded projects: Structural health monitoring Materials for sensing applications