

### **Publication details of Dr. K BALAMURUGAN, Asso.PME**

#### **Journal Publications (with Impact factor/SCImago Journal Rank)**

1. A.Tamilvanan, K.Balamurugan, D.Saravanan, **Production, performance and emission analysis of Tamanu oil diesel blends along with biogas in a diesel engine with dual cycle mode**, International Journal of Energy Technology and Policy, Vol. 14, No. 1, 2018, pp.4–19 (Impact factor SJR 0.147 ) ISSN : 14728923, Scopus listed.
2. C.Sasikumar, K.Balamurugan, S.Rajendran, Naveen Kumar, **Process Parameter optimization in Jatropha Methyl Ester yield using Taguchi technique**, Materials and Manufacturing Processes, Vol. 31, Issue 6, 2016, pp. 701-706, DOI: 10.1080/10426914.2015.1048473 (Impact factor – 1.486) - ISSN :10426914, Scopus and Web of Science listed (SCI Expanded)

#### **Referred Journal Publications**

3. S.C.Thiyagarajan, K.Balamurugan, **Determination of change in Mechanical Properties of Banana Fibres Treated with Sodium Carbonate, Barium Hydroxide**, International Journal of Printing, Packaging & Allied Sciences, Vol. 4, No. 2, 2016, pp. 1368-1378 (ISSN 2320-4387).
4. M.K.Aravindan, K.Balamurugan, **Tribological and corrosion behaviour of al 6063/sic metal matrix composites**, International Journal of Advanced Engineering and Technology, Vol. VII, Issue II, 2016, pp. 994-999 (E-ISSN 0976-3945).
5. M.K.Aravindan, K.Balamurugan, **Comparative wear behaviour of Al 6063 with sic and nano sic metal matrix composites**, ARPN Journal of Engineering and Applied Sciences, Vol. 11, Issue 9, 2016, pp. 5739 (ISSN 1819-6608, Scopus listed).
6. A.Tamilvanan, K.Balamurugan, K.Ponappa and B.Madhan Kumar, **Using Response Surface Methodology in Synthesis of Ultra-fine Copper Nanoparticles by Electrolysis**, International Journal of Nanoscience, Vol 15, No. 1/2, 2016, pp. 1650001 -1650011 (ISSN :0219581X, Scopus listed).

1. A.Tamilvanan, K.Balamurugan, K.Ponappa and B.Madhan Kumar, **Using Response Surface Methodology in Synthesis of Ultra-fine Copper Nanoparticles by Electrolysis**, International Journal of Nanoscience, Vol 15, No. 1/2, 2016, pp. 1650001 -1650011 (ISSN :0219581X, Scopus listed).
2. K.Balamurugan, **Preparation and testing of hybrid composite materials for automobile components**, Journal of Road Transport, Vol. 3, Issue 4, 2015, pp. 40-51 – ISSN : 2394-2495.
3. C. Sasikumar , K. Balamurugan, K. M. Nithish Kumar, A. Muthuraja, **Nanoparticles added biodiesel to enhance the performance of diesel engine**, International Journal of Applied Engineering Research (IJAER), Vol. 10, No.62, 2015, pp. 173-180 - ISSN :09734562, Scopus listed.
4. C.Sasikumar, K.Balamurugan, A.Muthuraja, K.M.Nithish kumar, **Performance improvement of diesel engine using pongamia biodiesel with nanoparticles**, International Journal of Applied Engineering Research (IJAER), Vol. 10, No.51, 2015, pp. 719-723 - ISSN :09734562, Scopus listed.
5. S. Murugesan and K. Balamurugan, **Investigation of Machining Parameters in EDM of Al-15%SiCp MMC using Multichannel Electrode by ANOVA and ANN**, International Journal of Applied Engineering Research (IJAER), Vol. 10, Number 6, 2015, pp. 14999-15015 - ISSN :09734562, Scopus listed.
6. K.Balamurugan, J.Dinesh, R.Kannan, A.Rajeshkumar, S.Amarnath, **Low Pressure Biomass Briquetting from Water Hyacinth**, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 4, Issue 6, 2015, pp. 630-640 – ISSN : 2347-6710.

35. K.A.Ramesh Kumar, K.Balamurugan, S.Arungalai Vendan, J.Bensam Raj, **Investigations on thermal properties, stress and deformation of Al/SiC metal matrix composite based on finite element method**, Carbon - Science and Technology Journal, Vol. 6, No. 3, 2014, pp.1-13 – ISSN : 0974-0546.
36. K.A.RameshKumar, K.Balamurugan, D.Gnanaraj, S.Ilangovan, **Investigations on the effect of flyash on the SiC reinforced aluminium metal matrix composites**, Advanced Composites Letters, Vol. 23, Issue 3, 2014, pp. 55-60 - ISSN :09636935, Scopus and Web of Science listed (SCI Expanded).
37. G Senthilkumar, K Balamurugan, **Rheological, Wear and Thermal Stability Studies on Sunflower Oil with Natural and Nano Metal Additives**, International Journal of Applied Engineering Research, Vol.9, No. 23, 2014, pp. 21739-21746 - ISSN :09734562, Scopus listed.
38. G Senthil Kumar and K Balamurugan, **Process parameters optimization for synthesis of methyl ester from Sunflower oil using Taguchi technique**, Carbon - Science and Technology Journal, Vol. 6, No. 3, 2014, pp. 22 – 29 – ISSN : 0974-0546.
39. N.Kanagasapabathy, K.Balamurugan, **Design and development of maintenance toolkit for transportation**, Journal of Road Transport, Vol. 1, Issue 1, 2014, pp. 43-52 – ISSN : 2394-2495.
40. K. Balamurugan, M.Saravanan, K.Navinesan, K.G.Prem, G.Karthick **Water hyacinth briquette making and energy evaluation**, Journal of Biofuels, Vol. 5, No. 1, 2014, pp. 24-31 – ISSN : 0976-3015.
41. M.K.Aravindan, K.Balamurugan and G. Murali, **Effect of reinforcement of Aluminium 6063 With SiC on Mechanical Behaviour And Microstructure of Metal matrix Composites**, Carbon - Science and Technology Journal, Vol. 6, No. 2, 2014, pp. 388 – 394 - ISSN : 2394-2495.
42. G.Senthil Kumar, K.Balamurugan and R.Karthi, **Optimization of Sunflower Methyl Ester and its Tribological Studies**, International Journal of Research in Engineering and Science (IJRES), Vol. 2, Issue 7, 2014, pp.19-24 – ISSN : 2320-9364.
43. A.Karthikeyan, K.Balamurugan and A.Kalpana, **The effect of SLS treatment on tensile property of coconut fiber reinforced epoxy composites**, Iranian Journal of Science and Technology Transactions of Mechanical Engineering, Vol. 38, No. M1, 2014, pp. 157-166 - ISSN :22286187, Scopus and Web of Science listed (SCI Expanded).
44. A.Tamilvanan, K.Balamurugan, K.Ponappa and B.Madhan Kumar, **Copper Nanoparticles: Synthesis Strategies, Properties and Multifunctional Applications**, International Journal of Nanoscience, Vol. 13, No. 2, 2014, pp. 1430001-22 (DOI: 10.1142/S0219581X14300016) - ISSN :0219581X, Scopus listed.
45. L.Jayakumar, K.Balamurugan and C.Ezilarasan, **Wear and friction behavior of 7075Al-25 SiC particle composites sliding against automobile friction material**, International Review of Mechanical Engineering, Vol. 8, No. 1, 2014, pp. 190-196 - ISSN :19708734, Scopus listed.
46. G.Senthilkumar, K.Balamurugan, P.Karthi, R.Karthi, S.Karuppusamy, **Wear and Emission Studies on Pungam Methyl Ester Blended with 2T Lubricating oil**, Indian Journal of Engineering, Science and Technology, Vol. 7, No. 1, 2013, pp. 9-15 – ISSN : 0973-6255.

47. K.Balamurugan, A.Tamilvanan, M.Anbarasu, S.Akil Mohamed, S.Srihari, **Nano-Copper Additive for Reducing NO<sub>x</sub> Emission in Soya Bean Biodiesel-Fuelled CI Engine**, Journal of Biofuels, Vol.4, No. 1, 2013, pp.1-8 - ISSN : 0976-3015.

48. P.Kannan, K.Balamurugan, K.Thirunaavukkarasu, **Welding of 6061-T6 Aluminium with AISI 304 Stainless Steel by Friction Welding Process using Silver Interlayer**, International Journal of Mechanical Engineering Research, Vol.3, Number 1, 2013, pp 50-53, ISSN : 2249-0019.
49. K. A. Ramesh Kumar, K.Balamurugan, D.Gnanaraj, S.Ilangovan, **A Study on the Effect of SiC Reinforcement on the Surface and Tribological Behavior on Al-Metal Matrix Composites**, Journal of Applied Mechanics and Materials, Vol. 392, 2013, pp. 51-56 – ISSN : 1660-9336.
50. P.Kannan, K.Balamurugan, K.Thirunavukkarasu, **Reducing the Width of the Softened Zone by Using Silver Interlayer in Dissimilar Friction Welds**, International Journal of Manufacturing Science and Technology, Vol. 6, No. 2, 2012, pp. 95-98 – ISSN : 0973-5496.
51. K.Balamurugan, **Application of simulation and genetic algorithm for machine layout design**, Journal of Information and Optimisation Sciences, Vol. 33, No. 6, 2012, pp. 653-664 (DOI:10.1080/02522667.2012.10700166) – ISSN : 0252-2667.
52. P.Kannan, K.Balamurugan, K.Thirunavukkarasu, M.Sreenivasan, **Behaviour of Dissimilar Friction Welds with the introduction of Silver Interlayer**, Journal of Applied Mechanics and Materials, Vol. 224, 2012, pp. 178-183 - ISSN : 1660-9336..
53. P.Kannan, K.Balamurugan, K.Thirunavukkarasu, Sukumar Puhan, **Characterization of Particle Fracture in Dissimilar Friction Welding Containing Silver Interlayer**, Journal of Applied Mechanics and Materials Vol. 224, 2012, pp. 280-285 - ISSN : 1660-9336.
54. P.Kannan, K.Balamurugan, K.Thirunaavukkarasu, **Experimental Investigation on the Influence of Silver Interlayer in Particle Fracture of Dissimilar Friction Welds**, International Journal of Mechanical Engineering and Technology, Vol.3, Issue 2, May – August 2012, pp 300 – 304 – ISSN : 0976-6340.
55. P.Ilamathi, V.Selladurai, K.Balamurugan, **Predictive modelling and optimization of power plant nitrogen oxides emission**, International Journal of Artificial Intelligence Vol. 1, No. 1, March 2012, pp. 11-18 - ISSN: 2089-4872.
56. E.Rajasekar, K.Balamurugan, A.Murugesan, **Methanol-Jatropha Bio-diesel tri-compound blends:Environment friendly oxygenated biomass fuel for diesel engines**, Indian Journal of Engineering, Science and Technology, Vol. 5, No. 1, 2011, pp. 19-25 – ISSN : 0973-6255.
57. K.M.Mohanasundaram, A.T.Ravichandran, K.Balamurugan and A.Anitha, **A genetic algorithm approach to optimize the order picking time in a Single Aisle warehouse**, Journal on Manufacturing Engineering (JME), Vol. 7, Issue 2, 2008, pp. 83-87.
58. K.Balamurugan, V.Selladurai and B.Ilamathi, **Facility layout design using genetic algorithm**, Industrial Engineering Journal, Vol. XXXVI, No. 4, 2007, pp. 5-11.
59. K.Balamurugan and B.Ilamathi, **A quality function deployment approach to ERP business process design**, Indian Journal of Information Science and Technology (IJIST), Vol. 1, Issue 2, 2006, pp. 21-27.
60. K.Balamurugan, B.Ilamathi and V.Selladurai, **Fuzzy expert system for wire EDM process control**, Journal on Manufacturing Engineering (JME), Vol. 5, Issue 2, 2006, pp. 7-9.

61. B.Ilamathi, K.Balamurugan, and V.Selladurai, **Optimization of Multi-Objective Multi-pass Turning Operation using Genetic Algorithm**, Journal of Manufacturing Technology and Management (MT&M), Vol. 1, No. 2, 2005, pp. 15-20.

62. K.Balamurugan, V.Selladurai and B.Ilamathi, **Solving facility layout problems using excel and genetic algorithm**, Indian Journal of Information Science and Technology (IJIST), Vol. 1, Issue 1, 2005, pp. 43-52.
63. K.Balamurugan, V.Selladurai and B.Ilamathi, **Optimization of machine layout problems**, Journal on Manufacturing Engineering(JME), Vol. 4, Issue 4, 2005, pp. 41-44.
64. S.R.Devadasan, M.Karhikeyan, K.Kannan, G.Sundararaj and K.Balamurugan, **Financial accounting system for quality circle programs**, Participation and Empowerment – an International Journal, Vol. 7, No 4, 1999, pp 72-87 - ISSN: 1463-4449.

### Conference Publications

65. K.Balamurugan, J.Dinesh, A.Rajeshkumar, S.Amarnath, R.Kannan, **Low pressure biomass briquetting from water hyacinth**, International conference MULTICON'15, Muthayammal Engineering College, 29&30 April 2015.
66. S.Murugesan, K.Balamurugan, C.SathiyaNarayanan, **ANN Modeling of MRR and SR in EDM of Al-15% SiC Metal Matrix Composites using Multichannel Electrode**, International Conference on Advances in Production and Industrial Engineering, NIT Trichy, 20 & 21, February 2015.
67. K.Balamurugan and P.Vignesh, **Fuel briquette from water hyacinth and energy evaluation**, Indian Technology Congress, NIMHANS Convention Centre, Bangalore, 21-22 August, 2014.
68. R.Karthi, G.Senthil Kumar and K.Balamurugan, **Preparation of Sunflower based Lubricants and its Optimization**, Second International Conference on Advance Trends in Engineering and Technology (ICATET-2014), Arya College of Engineering & Information Technology, Jaipur, Rajasthan, 18-19, April 2014.
69. N.Kanagasabapathi, K.Balamurugan and K.Mayilsamy, **Soya Bean and mineral oil based lubricants – their tribological performance for piston liner and rings**, International Conference on Advancements and Futuristic Trends in Mechanical and Material Engineering, Punjab Technical University, Punjab, October 3-6, 2013, pp. 411-416.
70. P.Kannan, K.Balamurugan, K.Thirunavukkarasu, **Analysis of the Friction Welding Process using Silver Interlayer in Relation to the Welding of 6061-T6 Al and AISI 304 SS**, International Conference on Sustainable Manufacturing, Coimbatore Institute of Technology, Coimbatore, July 29-31, 2013.
71. N.Kanagasabapathi, K.Balamurugan and K.Mayilsamy, **A study on wear texture of piston – cylinder liner set up using nano-copper suspended soya bean lubricant**, International Conference on Innovative Research in Engineering and Technology (ICIRET), Park college of Engineering, Coimbatore, January 3-5, 2013, pp. 1-5.
72. A.Karhikeyan, K.Balamurugan, A.Kalpna, Kirubakaran, **The effect of fiber length and surface modification on the tensile property of NaOH treated coir fiber reinforced epoxy composites**, International Conference on Sustainable Manufacturing, Coimbatore Institute of Technology, Coimbatore, July 29-31, 2013.
73. P.Kannan, K.Balamurugan, K.Thirunavukkarasu, **Dissimilar Friction Welding of 6061 – T6 Aluminium and AISI 304 Stainless Steel by using Silver Interlayer**, National Conference on Recent Trends in Manufacturing Technology (RTMT – 2013), Anna University, Chennai, April 25 & 26, 2013.

74. L.Jayakumar, K.Balamurugan, K.Santhoshkumar, & SB.Saddam Hussain, **Wear behavior of 7075Al-SiC composite against automobile friction material**, International Conference on



Design, Analysis, Manufacturing and Simulation (ICDAMS), Saveetha University, Chennai, March 21 & 22, 2013.

75. P.Kannan, K.Balamurugan, K.Thirunavukkarasu, **Welding of 6061-T6 Aluminium with AISI304 Stainless Steel by Friction Welding Process using Silver Interlayer**, World Congress on Frontiers of Mechanical, Aeronautical and Automobile Engineering (WCFMAAE-2013), Indian Institute of Technology, New Delhi (IITD), Feb. 2 & 3, 2013.
76. G.Senthilkumar, K.Balamurugan, V.Veerapandiprabhu and S.Karthi, **Experimental investigation of sunflower based lubricants with nanoparticle additives in petrol engines**, National conference on Optimisation Techniques in Engineering Sciences, Bannari Amman Institute of Technology, Sathyamangalam, April 19-20, 2013.
77. G.Senthilkumar, K.Balamurugan, S.Karthi and V.Veerapandiprabhu, **Production of Sunflower oil Methyl Ester by Optimised Alkali-catalysed methanolysis**, National conference on Optimisation Techniques in Engineering Sciences, Bannari Amman Institute of Technology, Sathyamangalam, April 19-20, 2013.
78. C.Sasikumar, K.Balamurugan, R.Arunkumar and A.Ramakrishnan, **Production of Jatropa Methyl Ester by Optimised Alkali-catalysed methanolysis**, National conference on Optimisation Techniques in Engineering Sciences, Bannari Amman Institute of Technology, Sathyamangalam, April 19-20, 2013.
79. G.Senthilkumar, K.Balamurugan and J.Mohanraj, **Experimental Studies on sunflower based lubricant for two stroke engines**, International conference on Innovations in Engineering and Technology for Sustainable Development, Bannari Amman Institute of Technology, Sathyamangalam, September 3-5, 2012, pp. ME103-107.
80. P.Kannan, K.Balamurugan, K.Thirunavukkarasu, **Experimental Investigation on the Influence of Silver Interlayer in Particle Fracture of Dissimilar Friction Welds**, International Conference on Thermal, Material and Mechanical Engineering (ICTMME 2012), Planetary Scientific Research Center, Singapore, July 15-16, 2012.
81. G.Senthil Kumar, K.Balamurugan, S.Karthi and V.Veerapandi Prabhu, **Studies on sunflower based lubricants and its maximum yield production – A review**, CSIR sponsored National Conference on Green Automobile Conceptualizations Towards Sustainable Development – 2012 (GACSD - 2012), 05-06, October 2012, Kavary College of Engineering, Mecheri, Salem, pp 16.
82. G.Senthil Kumar, K.Balamurugan, V.Veerapandi Prabhu and S.Karthi, **Studies on sunflower based lubricants with nano particles additives in engine – A review**, CSIR sponsored National Conference on Green Automobile Conceptualizations Towards Sustainable Development – 2012 (GACSD - 2012), 05-06, October 2012, Kavary College of Engineering, Mecheri, Salem, pp 16.
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84. J.Mohanraj, G.Senthilkumar, K.Balamurugan, **Wear and emission studies on sunflower methyl ester blended with 2T lubricating oil**, Seventh National Conference on Optimization Techniques in Engineering Sciences and Technology (OPTTEST - 2012), 20-

21 April 2012, Department of Mechanical Engineering, Bannari Amman Institute of Technology, Sathyamangalam.

85. G.Senthil Kumar, K.Balamurugan, S.Vinu, M.Radhakrishnan and G.Senthil Prabhu **Tribological Test and Emission Analysis of 2 stroke Lubrication oil blend with Sunflower Methyl Ester in Petrol Engine**", Sixth National Conference on Optimization Techniques in Engineering Sciences and Technology (OPTTEST - 2011), 15 -16 April 2011, Department of Mechanical Engineering, Bannari Amman Institute of Technology, Sathyamangalam, pp 93.
86. K.Balamurugan, **Impact characterization of 6351 Al-Sic Metal Matrix Composites**, National Conference on Advances in Mechanical Sciences, 5th March 2011, C. Abdul Hakeem College of Engineering & Technology, Melvisharam.
87. K.Balamurugan, **Study on analyzing the fabrication process of metal matrix composites**, National Conference on Recent Trends in Mechanical Engineering, 23<sup>rd</sup> March 2011, SSM College of Engineering, Komarapalayam.
88. G.Senthilkumar, P.K.Jayadev, K.Balamurugan, A.G.Sasikumar, P.SubashChandran, **Productivity improvement in Automated Storage and Retrieval System – A Case Study**, National Conference on Optimization Techniques in Engineering Sciences and Technologies, Bannari Amman Institute of Technology, Sathyamangalam, March 2009.
89. M.Sabarinath, N.Kanagasapabathy, K.Balamurugan, **Design and development of maintenance toolkit for transportation**, National Conference on Soft Computing, Institute of Road and Transport Technology, Erode, March 19&20, 2009, pp. 244-251.
90. K.Balamurugan, **Modelling and optimisation of multi-objective facilities layout problems using excel and genetic algorithm**, International Conference on Recent Trends in Materials and Mechanical Engineering, Dr.Mahalingam College of Engineering & Technology, Pollachi, Dec. 18-20, 2008, pp. 632-639.
91. K.M.Mohanasundaram, A.T.Ravichandran, K. Balamurugan and A. Anitha, **A genetic algorithm approach to optimize order picking time in a warehouse**, National Conference on Contemporary approaches in Design and Manufacturing, AlgappaChettiar College of Engineering, Karaikudi, 21 April 2006.
92. K.Balamurugan, V. Selladurai and B. Ilamathi, **A genetic algorithm approach to facility layout problems** 3<sup>rd</sup> International Conference on Manufacturing Research (ICMR), Cranfield University, UK, Sep. 6-8, 2005. (Participated and presented the paper)
93. N.S.Vijayaprathapan and K. Balamurugan, **A QFD approach to ERP system design**, National Conference on Advances in Engineering Design, Bannari Amman Inst. Of Technology, Sathyamangalam, April 29 & 30, 2005, pp. 1016 – 1023.
94. K.Balamurugan, V.Selladurai and B. Ilamathi, **Facility Layout Design using Simulation and Genetic Algorithm**, XXXXV National Convention of IIIE, Visakapatnam, Dec. 12-14, 88-95, 2003.
95. K.Balamurugan, B.Ilamathi and A.T.Ravichandran, **A Knowledge based methodology for the measurement of Manufacturing Flexibility**, National Conference on World Class Manufacturing, Amirta Institute of Technology, Coimbatore, May 7-9, 2003.
96. K.Balamurugan and B.Ilamathi, **A Survey on Advanced Optimization Techniques and its Industrial Applications**, National Conference on Advanced Manufacturing Technology, NSS College of Engineering, Palakkad, Feb. 15-16, 2003.
97. K.Balamurugan and B.Ilamathi, **Modelling, Virtual Simulation and Flexibility Measurement of Flexible Manufacturing System (FMS)**, International Conference on

Digital Aided Modelling and Simulation (DAMS 2003), organized by Coimbatore Institute of Technology, Coimbatore, Jan. 6-8, 2003.

98. B.Ilamathi and K.Balamurugan, **Genetic Algorithm approach to optimize Multi-objective Multi pass Turning Operation**", International Conference on Operations Research for Development (ICORD 2002), ORSI Chennai & Bangalore Chapter,, Chennai, Dec. 27-30, 2002.
99. K.Balamurugan and B.Ilamathi, **Flexible Manufacturing System Layout design and analysis through Simulation**, National Conference on Future Trends in Mechanical Engineering Research & Development, Bharath Institute of Science & Technology, Chennai, Dec. 13-14, 2002.
100. B.Ilamathi, K.Balamurugan and C.Sasikumar, **Fuzzy Java Expert System Shell (FJESS) for CNC Wire EDM process**, National Seminar on Recent Trends in Production and Industrial Engineering, G. Pulla Reddy Engineering College, Hyderabad, Dec. 9, 2002, pp. 154-158.
101. K.Balamurugan and B.Ilamathi, **Quick Response Manufacturing – A Complete Business Enabler for 21<sup>st</sup> Century**, National Seminar on Recent Trends in Production and Industrial Engineering, G. Pulla Reddy Engineering College, Hyderabad, Dec. 9, 2002, pp. 103-109.
102. K.Balamurugan, K.S.Ramkumar and P.K.Jayadev, **Modelling and Simulation of Pump Assembly using IGRIP**, Delmia users conference 2000 ASEAN & SARRC Region, Bangalore, July 13-14, 2000, pp. 1-4.
103. S.R.Devadasan, S.Muthu and K.Balamurugan, **Human Resources and Development and Planning for Effective maintenance management system (EMMS)**, National Seminar on Transition from learning to work: HRD strategies in Technical Education, PSG College of Technology, Coimbatore, July 15-16, 1999, pp 81-85.
104. S.R.Devadasan and K.Balamurugan, **Accounting Quality Circle Programme in Indigeneous Operational Environments**, Proceedings of the National Conference on Quality Engineering in Aerospace Technology, Organized by Centre for Military Airworthiness & Certification (CEMILAC), Bangalore and Defence Research & Development Laboratory (DRDL) at Bangalore during August 20 - 21, 1999, pp. G-25-31.
105. S.R.Devadasan, G.Sundararaj and K.Balamurugan, **Financial Accountability of Quality Circle Programme**, Proceedings of the National Seminar on Manufacturing Technology for 21<sup>st</sup> & Reorganization of Engineering Education, March 1999. This seminar was organized by Production Engineering Department of Govt. Engineering College, Thrissur during March 19-20, 1999.