

(Textile Engineering Department)

Graduate

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Course Title: **Data Analysis in Textile**

Lecturer: **Dr. Masoud Latifi**

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Course Topics:

Reading Resources:

- Foley J. D., Dam A. V., Feiner S. K. & Hughes J. F., 'Computer Graphics, Principles and practice', Addison-Wesley Publishing Company, 1993
- Jackson R., MacDonald L. & Freeman K., 'Computer Generated Color, A Practical Guide to Presentation and Display', John Wiley & Sons Ltd, 1994
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- Kay D. C. & Levine J. R., 'Graphics File Formats', Windcrest/ MacGraw-hill, 1995
- Getting Started with MATLAB (Version 6), The MathWorks Inc., 2000
- Hanselman D. & Littlefield B., 'Mastering Matlab 5, A Comprehensive Tutorial and Reference', Prentice Hall, 1998
- Image Processing Toolbox For Use with MATLAB (User's Guide), The MathWorks Inc., 2000
- Gonzalez R. C. & Woods R. E., 'Digital Image Processing', 2nd Edition, Prentice-Hall, 2002
- Gonzalez R. C., Woods R. E. & Eddins S. L., 'Digital Image Processing Using MATLAB', 2nd Impression, Pearson Education, 2007
  
- Safar-Johari M., Latifi M., Amani Tehran M. and Tajeri H., Measurement of Yarn Diameter and Hairiness by Means of Image Analysis System, Amirkabir Journal of Science & Technology, Vol. 10, No. 37, Tehran, Iran, 1998
- Kim H. S., Latifi M. and Pourdeyhimi B., Evaluation of Fuzz in Nonwovens, International Nonwoven Journal, Vol. 9, No. 1, 2000
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- Yousofzadeh-Chimeh M., Amani-Tehran M., Latifi M. & Mohades-Mojtahedi M. R., Determination of Bulkiness and Hairiness of Air-Jet Textured Yarn Using Image Analysis Techniques, The Journal of the Textile Institute, Vol. 96, No. 4, 2005
- Semnani D., Latifi M., Amani-Tehran M., Pourdeyhimi B., Merati A. A., Effect of yarn appearance on apparent quality of weft knitted fabric, The Journal of the Textile Institute, Vol. 96, No. 5, 2005
  
- Yousofzadeh-Chimeh M., Amani-Tehran M., Latifi M. & Mohades-Mojtahedi M. R., Determination of Crimp Indexes of False Twist and Knit de Knit Textured Yarns Using Computer Vision, Amirkabir Journal of Science & Technology, Vol. 16, No. 62, 2005

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- Latifi M., Vahedi-Tafreshi H. & Pourdeyhimi B., A Note on an Optical Method to Evaluate Fiber Dispersion in Wet-laid Nonwoven Process, *Textile Research Journal*, Vol. 78, Issue 6, 2008
- Maleki M., Latifi M. and Amani-Tehran M., “Definition of Structural Features of Nano Coated Webs by Image processing Methods”, *International Journal of Nano Technology*, Vol. 6, No. 12, PP. 1131-1154, 2009
- Safavi A., Fathi-Khalfbadam S., Babaie M. R., Mansoori Z. and Latifi M., “Experimental and Numerical Analysis of Fiber Characteristics Effects on Fiber Dispersion for Wet-Laid Nonwoven”, *Fibers and Polymers*, Vol. 10, No. 2, 2009
- Karamad M. J., Latifi M. and Amani-Tehran M., “Nondestructive Identification of Knot Types in Hand-Made Carpet”, *Journal of Nondestructive Evaluation*, Vol. 28, No. 2, PP. 55-62, 2009
- Peyvandi P., Yousefzadeh-Chimeh M. and Latifi M., “A Note on Neuro-Fractal Based Defect Recognition and Classification in Nonwoven Web Images”, *The Journal of the Textile Institute*, Vol. 101, No. 1, 2010