

**Department of Electronics and Communication Engineering  
National Institute of Technology Trichy**

**One day seminar on  
Pattern analysis and biologically inspired algorithms**

**(PABIA)**

**On 11<sup>th</sup> May 2012**

**Venue: A11 Hall**

**Time: 9.00 a.m. to 5.00 p.m.**

**Objective:**

The objective of the seminar is to motivate the students of NITT to get involved in the research activities of PABIA.

**Eligibility: B. Tech students of all disciplines.**

**Topics:**

- Projection techniques using PCA,LDA, ICA, IDA, etc.
- Kernel tricks to PCA,LDA
- Solving small sample size problem in LDA
- Support vector Machine (SVM)
- Probabilistic model example: Gaussian Mixture Model
- Back propagation Neural Network
- Particle Swarm Optimization
- Bacterial foraging
- Ant colony

**Interested candidates can fill the enclosed register form and send the hard copy to**

**E. S. Gopi,  
Assistant professor,  
Department of ECE,  
National Institute of Technology Trichy  
Trichy – 620015**

**Registration form**

**One day seminar on Pattern Analysis and Biologically inspired algorithms**

**Name:**

**Department:**

**Semester:**

**I am interested in attending the seminar on Pattern Analysis and Biologically inspired algorithms (PABIA) on 11<sup>th</sup> May 2012. I shall attend the course for the entire duration.**

**Signature**