

Code: 17D06107

M.Tech I Semester Regular &amp; Supplementary Examinations January/February 2019

**PATTERN RECOGNITION & COMPUTER VISION**

(Digital Systems &amp; Computer Electronics)

(For students admitted in 2017 &amp; 2018 only)

Time: 3 hours

Max. Marks: 60

Answer all the questions

\*\*\*\*\*

- 1 Discuss about data training of learning systems.

**OR**

- 2 Explain about concept representation and function approximation.

- 3 Explain about neurons and biological motivation.

**OR**

- 4 What is back propagation and explain its training algorithm?

- 5 What is SVM? Explain in detail.

**OR**

- 6 Discuss about Kernels for learning non-linear functions.

- 7 Explain the strategy and games.

**OR**

- 8 Discuss about the extensive forms of games with an example.

- 9 Discuss about the heuristic search techniques.

**OR**

- 10 Explain the principle of particle swarm optimization.

\*\*\*\*\*