

# Online Short Term Course on Artificial Intelligence



27-30 August, 2020

Centre for Continuing Education (CCE)

Indian Institute of Science, Bangalore, India - 560012

## Overview of the short course:

Introduction, Problem Solving : Representation and Search, heuristics, game playing; Knowledge and reasoning : logic, reasoning using logic , reasoning with uncertain information; Planning and decision making ; Learning : Classification, clustering, reinforcement learning ; Deep Learning – CNN, RNN, GAN; Natural Language processing ; Distributed AI; multiple agents; Artificial intelligence programming and applications

## Books:

- S. Russel and P. Norvig, Artificial Intelligence –A Modern Approach, Pearson, India, 2015.
- M N Murty and V Susheela Devi, Introduction to Pattern Recognition and Machine Learning, IISc Lecture Series Notes, World-Scientific, IISc Press, 2015.
- Nils J. Nilsson, Artificial Intelligence – A New Synthesis, Morgan Kaufmann Publishers, 2000

## Minimum Qualification Required:

BE or MCA or MSc (Computers)

## Prerequisites:

Basic Mathematics and Programming Background

## Course Coordinators:

- Prof. M. Narasimha Murty, CSA Dept., Indian Institute of Science, Bangalore 560012 Email: mnm@iisc.ac.in
- Dr. V. Susheela Devi, Principal Research Scientist, CSA Dept., Indian Institute of Science, Bangalore 560012 Email: susheela@iisc.ac.in

**Registration:** This course can be attended only by registration. The number of participants is limited to 60. The registration will be accepted on a first-come first-served basis.

**Apply online at:** <http://cce.iisc.ac.in/ssp-stc.html>

**The registration fee is INR 15000 +18% GST**

**Duration:** 27 – 30 August, 2020

**Last Date to Apply:** 31/07/2020

**Note:** Courses will be conducted via Microsoft Teams/Google Meet