

Madanapalle Inc. at of Technology & Science
UGC Autonomous

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Department of Committee Science & Englishing

Date: 03.10.2017

Submitted to the Principal

Sub: Requisition of permission for orga ... the Alumni Guest Lecture -Reg.

We are planning to organize the Guest Lecture tight on "Soft Compating Applications" for B.Tech III year students on 7th Oct 2017. The aim of this seminar is 1 ding the awareness about Soft Computing Applications to the small ats.

We are inviting the resource person V. Bhar — sociate Software English Infosys, Banglore for giving the guest lecture talk. Kindly request you to provide permission for conducting the program in above mentioned date.

Y. C. 1.

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Principal
Principal
Madanapalle Institute

Technology & Selim,

Mandanapalle Institute of Technology & Science (UGC - Autonomous)

Department of Computer Science & Engineering

Organize Alumni Guest Lecture on

"Soft Computing Applications"

Resource Person: Mr.V. Bharath

Date: 07-10-2017

Venue: CSE SEMINAR HALL

Chief Patron

Dr. N. Vijaya Bhaskar Chowdary Secretary & Correspondent Patron

Dr. C. Yuvaraj Principal Convenor

Dr. M.Sreedevi HOD, CSE

Coordinator

Mr.Y.C.A. Padmanabha Reddy, Asst. Professor CSE

A Report on Alumini Guest Lecture on Soft Computing Applications by Mr. V. Bharath

Target Audience:-Il B. Tech CSE students.
Topic:- Soft computing Applications

Date:-07-10-2017

Venue:-CSE Seminar Hall

Resource Person:- V. Bharath, Associate Software Engineer, Infosys, Banglore

Report Submitted by Y. C. A. Padmanabha Reddy, Asst.Prof in CSE Dept.

Dr. Sakti Ganeshan, HOD inaugurated the program by introducing the Mr. C V. Bharath, Associate Software Engineer, Infosys, Banglore. Mr C. Vamshi Krishna explained about soft computing applications to the students.

Soft computing is the idea of computing like people because people and the world are soft. It was conceived by Lotfi Zadeh, pioneer of a mathematical concept known as fuzzy sets which led to many new fields such as fuzzy control systems, fuzzy graph theory, fuzzy systems, and so on. Zadeh observed that people are good at 'soft' thinking while computers typically are 'hard' thinking. People use concepts like 'some', 'most', or 'very' rather than 'hard' or precise concepts of 3.5 or 102. People want a 'warm' glass of milk, not one that is 102 degrees. In general, people are good at learning, finding patterns, adapting and are rather unpredictable. In 'hard' computing, by contrast, machines need precision, determinism and measures, and although pattern recognition happens, there is a 'brittleness' if things change - it cannot easily adapt. 'Soft' computing by contrast embraces chaotic, neural models of computing that are more pliable. Because there is no known single method that lets us compute like people, soft computing involves using a combination of methods that each bring something helpful to achieve this goal. The principal constituents of Soft Computing are Fuzzy Logic (FL), Evolutionary Computation (EC), Machine (SC) Learning (ML) and Probabilistic Reasoning (PR), with the latter subsuming belief networks and parts of learning theory.

Soft Computing became a formal area of study in Computer Science in the early 1990s. Earlier computational approaches could model and precisely analyze only relatively simple systems. More complex systems arising in biology, medicine, the humanities, management sciences, and similar fields often remained intractable to conventional mathematical and analytical methods. However, it should be pointed out that complexity of systems is relative and that many conventional mathematical models have been very productive in spite of their complexity.

Soft computing deals with imprecision, uncertainty, partial truth, and approximation to achieve

computability, robustness and low solution cost. As such it forms the basis of a considerable amount of machine learning techniques. Recent trends tend to involve evolutionary and swarm intelligence based algorithms and bio-inspired computation.

(Y. C. A. Palimanabha Reddy)