WORKSHOP ON ARTIFICIAL INTELLIGENCE

Introduction:

AI (artificial intelligence) is the simulation of human intelligence processes by machines, especially computer systems. These processes include learning (the acquisition of information and rules for using the information), reasoning (using the rules to reach approximate or definite conclusions) and self-correction. Applications of AI include expert systems, speech recognition and machine vision.

Details of the workshop:

The workshop is conducted by Team Spark'18, an annual in-department fest conducted by Department of EEE.

The workshop focusses on implementing few of the many applications as mentioned above using MATLAB. The national workshop is spanned two days long aimed for undergraduate students. Topics like 'Artificial Neural Networks', 'Fuzzy Logic' is given emphasis.

Students explore the endless possibilities of AI, and the implementation of the concept in MATLAB. Hands-on practise sessions gave scope to build knowledge on the areas the instructor advices.

Current Scenario in the Artificial Intelligence sector is explored, and gave insights to the students for their career in this field.

Workhshop Presenters:

1. **Dr. S. V. N. L. Lalitha** (Student Branch Counsellor & Vice-Chair, IEEE Guntur Sub-Section), Professor, Dept. of EEE
2. **Dr. G. Kesava Rao** Professor, Dept. of EEE
3. **Mr. K. P. Prasad Rao** (LMISTE, IACSIT, IAENG), Asst. Professor, Dept. of EEE
4. **Mr. M. Naga Chaitanya** (MIEEE), Asst. Professor, Dept. of EEE
5. **Mr. G. R. S. Naga Kumar** (IAENG), Asst. Professor, Dept. of EEE

Schedule and Structure of the workshop:

Day 1

Timings	Topic	Faculty Name
11.00 AM-12:30 PM	**Introduction to "Artificial Intelligence"**	**Dr. S. V. N. L. Lalitha** (Student Branch Counsellor, IEEE Guntur Sub-Section), Professor, Dept. of EEE
12:30PM-1:00PM	**"Artificial Neural Networks" Introduction**	**Mr. K. P. Prasad Rao** (LMISTE, IACSIT, IAENG), Asst. Professor, Dept. of EEE
1:00 PM-2:00 PM	**LUNCH BREAK**	
2:00 PM-3:30 PM	**Hands-on Experience with "Artificial Neural Networks"**	**Mr. G. R. S. Naga Kumar** (IAENG), Asst. Professor, Dept. of EEE **Mr. K. P. Prasad Rao**, (LMISTE, IACSIT, IAENG), Asst. Professor, Dept. of EEE **Mr. M. Naga Chaitanya** (MIEEE), Asst. Professor, Dept. of EEE
3:30 PM-3:45 PM	**TEA BREAK**	
3:45 PM-5:00 PM		**Mr. G. R. S. Naga Kumar** (IAENG), Asst. Professor, Dept. of EEE

	Hands-on Experience with "Artificial Neural Networks"	**Mr. K. P. Prasad Rao** (LMISTE, IACSIT, IAENG), Asst. Professor, Dept. of EEE **Mr. M. Naga Chaitanya** (MIEEE), Asst. Professor, Dept. of EEE

Day 2

Timings	**Topic**	**Faculty Name**
9:00 AM-10:15 AM	**"Artificial Intelligence" and applications**	**Dr. G. Kesava Rao(**Fellow,IEEE, Professor, Dept. of EEE
10:15 AM-11:15 AM	**"Fuzzy Logic" Introduction**	**Mr. G. R. S. Naga Kumar** (IAENG), Asst. Professor, Dept. of EEE **Mr. K. P. Prasad Rao** (LMISTE, IACSIT, IAENG), Asst. Professor, Dept. of EEE **Mr. M. Naga Chaitanya**, Asst. Professor, Dept. of EEE
11:15 AM-11:30 AM	**TEA BREAK**	
11:30 AM-12:40 PM	**Analysis and design using "Fuzzy Logic" toolbox**	**Mr. M. Naga Chaitanya**, Asst. Professor, Dept. of EEE
12:40 PM-1:30 PM	**LUNCH BREAK**	

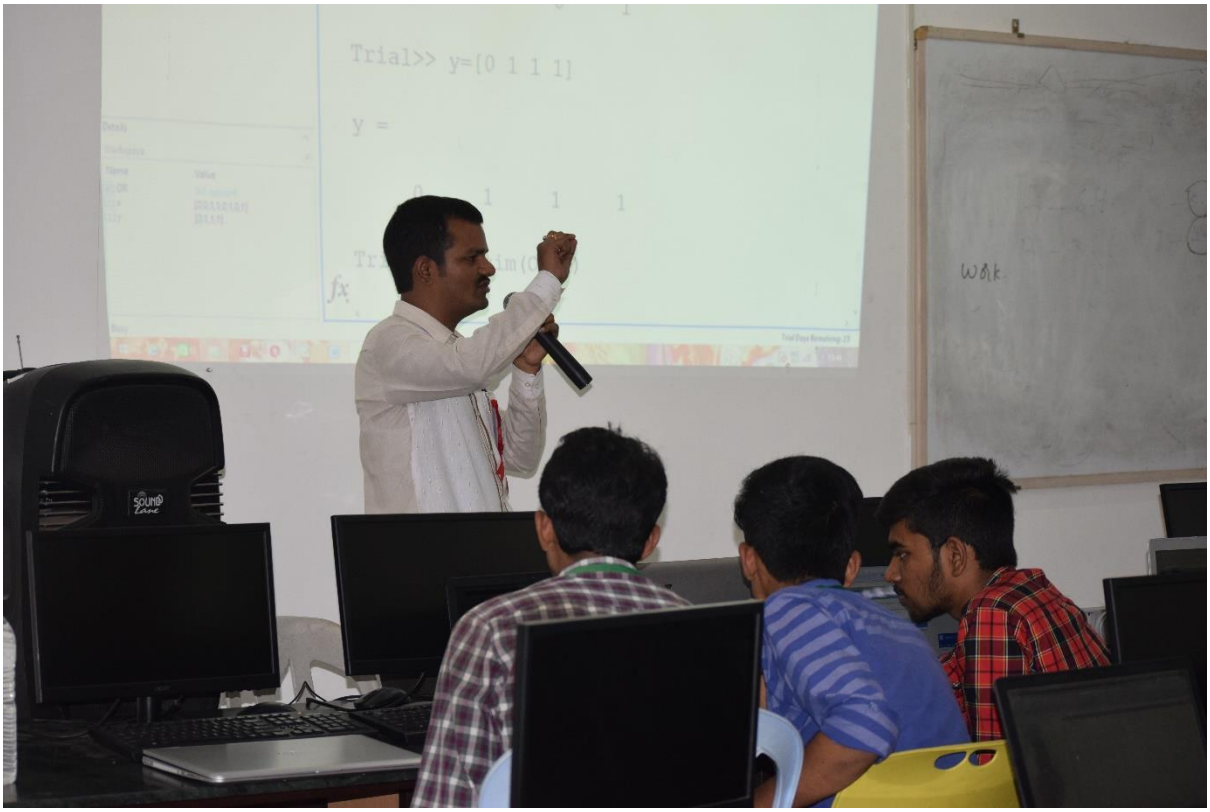
1:30 PM-3:30 PM	**Discussion on some applications with "Artificial Neural Networks" and "Fuzzy"**	**Mr. G. R. S. Naga Kumar** (IAENG), Asst. Professor, Dept. of EEE **Mr. K. P. Prasad Rao** (LMISTE, IACSIT, IAENG), Asst. Professor, Dept. of EEE **Mr. M. Naga Chaitanya** (MIEEE), Asst. Professor, Dept. of EEE

Workshop Proceedings:

1) Dr. S. V. N. L. Lalitha giving insights on AI and applications

2) Dr. Lalitha speaking about Humanoid 'Sofia'

3) Dr. K. P. Prasada Rao explaining about evolution of computing



4) Mr. G. R. S. Naga Kumar illustrating MATLAB code for AI

5) Dr. G. Kesava Rao lecturing about AI

6) Mr. M. Naga Chaitanya illustrating Fuzzy Logic Toolbox in MATLAB

7) Students learning the basics of Fuzzy Logic