



RISE KRISHNA SAI PRAKASAM GROUP OF INSTITUTIONS:: ONGOLE
(APPROVED BY AICTE-NEW DELHI, AFFILIATED TO JNTUK KAKINADA)
AN ISO 9001:2015 Certified Institute

Department of Electronics and Communication Engineering

Report on

Workshop

“HANDS ON SCI-LAB AND ITS APPLICATIONS IN ECE”

Resource persons

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On

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INTRODUCTION TO SCILAB:-

SCILAB is a free and open source, cross platform computational package and high level oriented programming language. It can be used for signal processing, statistical analysis, fluid dynamics simulations, numerical optimization and modeling, simulation of explicit and implicit dynamical systems and (if the corresponding toolbox is installed) symbolic manipulations.

Scilab is one of the two major open-source alternatives to MATLAB, the other one being GNU Octave. Scilab puts less emphasis on syntactic compatibility with MATLAB

This allows users to rapidly construct models for a range of mathematical problems. While the language provides simple matrix operations such as multiplication, the Scilab package also provides a library of high-level operations such as correlation and complex multidimensional arithmetic operations.

HISTORY:-

Scilab was created in 1990 by researchers from INRIA and ENPC. It was initially named **Ψlab** (*Psilab*). The Scilab Consortium was formed in May 2003 to broaden contributions and promote Scilab as worldwide reference software in academia and industry. In July 2008, in order to improve the technology transfer, the Scilab Consortium joined the Digiteo Foundation.

In February 2017 Scilab 6.0.0 was released which leveraged the latest C++ standards and lifted memory allocation limitations.

Since July 2012, Scilab is developed and published by Scilab Enterprises and in early 2017 Scilab Enterprises was acquired by Virtual Prototyping pioneer ESI Group

SCILAB EXISTANCE INTO RISE:-

Our Principal, BoardOf Directors A.V.bhaskar Rao sir and head of the department ECE Ch.venugopal reddy sir got combined together made a milestone and created a great platform for the students who are pursuing B.tech 2nd year to get practical knowledge about the scilab. They made effect to conduct a workshop with one of the resource persons DR.J.L.Narayana, who is expert in scilab and his team to introduce the scilab to the students which will be helpful to analyze the high level technical subjects

SCHEDULE OF WORKSHOP:-

The workshop has conducted for three working days. On the first day we got a basic theoretical knowledge later it made to write code for generating signals. On second day the topics went to high level but understandable to generate the outputs. On third day we have got full knowledge about how to use the scilab. The total work done is clearly explained below.

DAY-1 (29-NOVEMBER-2K18):-

On this day, we have a workshop on SCILAB which is alternative to matlab .We learned many technical applications by using SCILAB. For other computer languages, we must **ne mired** the support of expert in order to learn, but for scalar simply by using pdf provided by the sir we can learn. On morning section, we had a lecture, means introduction to scilab, by DR.J.L.Narayana sir .Most of the students come to brief understand by introduction itself.



Our HOD Ch.Venugopal reddy sir received the work shop head, resource person DR.J.L.Narayana sir with a flower bouquet



Dr.J.L.narayana sir taking a class on brief introduction on SCILAB

On afternoon session, we had a lab session on the topic “HANDS ON IN SIGNAL PROCESSING” by Mr.S.Pradeep Kumar sir. Any program me in the matlab end with in 10lines, as we take other computer languages we need to type a program of minimum 20 lines and maximum 100 lines. This is the main advantage. It is very easy to install, it is free of cost .Simply, it’s good as a technical language



Mr.S.Pradeep Kumar sir giving instruction to students that how to access SCILAB

DAY 2 30-NOVEMBER-2K18:-

On 2nd day of our workshop we have known many things in waves, antennas etc., and in this session we have “HANDS ON IN ELECTROMAGNETIC, MICROWAVE AND ANTENNAS. Which was taught by Dr.J.L.Narayana and we also learnt how antennas work and the introduction and the process of that with some examples of our daily life .and how the wave fields, field lines of our related subjects.

By listening those topics we had very much interest in knowing new things our subjects in advance or in before only by presentation.



On account of sessions finished by Dr.J.L.narayana sir, principal sir saying few things about workshop class given by Dr.J.L.narayana sir.



A small gift is presented to Dr.J.L.narayana by our management staff.

Programming codes were new in such way that we can easily learn. Everything writing in theory or in matter is a waste of time. So this time can be used for learning new things and we can simply type and execute the program within less time or in seconds. So that time will not be wasted. In the afternoon session we have Mr.A.RAMESH Sir and in this lab we can write the programs of Switching Theory and Logic Design .and also we can write for conversions and executing of technical language. This makes to learn some more about Scilab

DAY-3 1ST DECEMBER 2K18:-

On 3rd day in the morning session we have the Mr.A.Ramesh sir to know some more about our core subjects and their programmers in SCILAB that is “HANDS ON IN IMAGE AND SIGNAL



In memory of making workshop grand success, a photo where all staff and students who attend scilab.

PROCESSING” and having a lot of knowledge in scilab. The topics of Waves and signals and if a machine like car having eyes and ears etc. and sense like knowing the inner feelings of our mind .And we also learn how the signals are formed when we talk or when we make a sound . And its applications in our life We also learn how to convert a black and white image into color image mixing of colors and their formation. From the afternoon session we have hands on in digital designs which were thought by Mr. A.Ramesh.Having a work shop of these three days support us and gave a clarification about how to write a program in scilab in simple and short lines and also helped us to learn many new things.

రైజ్ లో ముగిసిన సైల్యాబ్ శిక్షణా తరగతులు



ఓంగోలు, మేజర్ న్యూస్ : స్థానిక వల్లూరు సమీపంలోని రైజ్ కృష్ణసాయి ఇంజనీరింగ్ కళాశాలలో తేది 29 నవంబరు నుండి డిసెంబరు 1వరకు మూడురోజులపాటు ఐ.ఇ.టి.ఇ. సంస్థ అనుబంధంలో బి.టెక్ సెకండ్ ఇయర్ ఇ.సి.ఇ. విద్యార్థులకు సైల్యాబ్ శిక్షణా తరగతులు జరిగినట్లు రైజ్ కృష్ణసాయి కళాశాల సెక్రటరీ శిద్దా హనుమంతరావు తెలిపారు. ఈ శిక్షణా తరగతులకు (పి.యస్.సి.) పొట్టిశ్రీరాములు ఇంజనీరింగ్

కళాశాలకు చెందిన డా॥ లక్ష్మీ నారాయణ, వారి సహాయ శిక్షకులు ఎ. రమేష్, యస్. ప్రతాప్ కుమార్ గార్లచే ఇ.సి.ఇ. విద్యార్థులకు ఎలక్ట్రా ప్రూగ్రెటిక్ పీల్డ్, సిగ్నల్ ప్రాసెసింగ్, ఇమెజ్ ప్రాసెసింగ్ డిజిటల్ సిస్టమ్స్ కోర్సులపై సై బ్రాజ్ ద్వారా సిమ్యులేషన్ లో శిక్షణ నిచ్చారు. ఈ సందర్భంగా కళాశాల డైరెక్టర్ డా॥ ఎ.వి. భాస్కరరావు మాట్లాడుతూ సై ఆఫ్ ద్వారా విద్యార్థులకు ఎన్నోకొత్త విషయాలను నేర్పించుకు ఉపయోగపడుతుందని,

ముఖ్యంగా విద్యార్థులకు టెక్నికల్ గా ఎంతగానో ఉపయోగపడుతుందని తెలియజేశారు. ఈ సందర్భంగా ఇ.సి.ఇ. విభాగాధిపతి డా॥ వేణుగోపాల్ రెడ్డి మాట్లాడుతూ ఈ శిక్షణా తరగతులో నేర్చుకున్న అంశాలపైన పరిశోధనలు చేసి మంచి పరిణామాలు విద్యార్థులు పొందాలని కోరారు. ఈ శిక్షణా తరగతులలో విద్యార్థులు, విభాగాధిపతులు ఇ.సి.ఇ. విభాగపు అధ్యాపకులు పాల్గొన్నారు.



రైజ్ లో ముగిసిన శిక్షణ తరగతులు

ఓంగోలు(విద్య), డిసెంబరు 1 : స్థానిక రైజ్ కృష్ణసాయి ఇంజనీరింగ్ కళాశాలలో మూడు రోజులుగా బీటెక్ ద్వితీయ సంవత్సరం ఈసీఈ విద్యార్థులకు నిర్వహిస్తున్న శిక్షణ తరగతులు శనివారం ముగిసినట్లు కళాశాల సెక్రటరీ శిద్దా హనుమంతరావు తెలిపారు. ఐఐఐటీయూ సంస్థ అధ్వర్యంలో శిక్షణలు జరిగాయి. కార్యక్రమంలో కళాశాల డైరెక్టర్ ఎ.వి. భాస్కరరావు, ఈసీఈ విభాగాధిపతి డాక్టర్ వేణుగోపాల్ రెడ్డి తదితరులు పాల్గొన్నారు.



Headlines came in newspapers on account of conducting work shop in our college.

Coordinator

HOD