

NEWS LETTER

Department of Information Technology
KGiSL Institute of Technology
Jan 2017 Issue

DEPARTMENT VISION

To become a centre of excellence in education and research in the field of information technology by providing industry embedded education to the students for creating transformative impact on the requirements of nation.

DEPARTMENT MISSION

M1: To provide necessary infrastructure and facilities in a conducive environment for effective learning and smoother conduct of the program.

M2: To achieve effective teaching learning process by providing experienced, qualified and dedicated faculty members.

M3: To impart value based education to encourage the students towards higher education, research and development activities.

M4: To inculcate an attitude of self-learning, lifelong learning, problem solving ability, creative thinking, individual and team work with professional, ethical and moral values

M5: To prepare students for careers in industry, encourage entrepreneurship and mould them to take leadership for the betterment of the society.

MESSAGE FROM HOD



A newsletter inspires and motivates students and staff alike, for it reminds them of the zeal that they had once to do something extraordinary. It gives me immense pleasure to note that the Newsletter of Information Technology department of KGiSL KITE is being released. Kudos to the editorial team. The newsletter which is being rolled out today marks the launch of an effervescent activity that would enable the Management to bring out to the eyes of the competitive world, the academic achievements of our prestigious institution. I am overwhelmed by the response that we received from the coordinators, heads of faculty members of IT department in making this newsletter possible.

WORKSHOP

Cloud Coder

The Department of Information Technology had organized a workshop for the student on Cloud Coder. Cloud Coder is an open source web-based programming exercise system. It is designed to make it easy for instructors of introductory programming courses to assign short exercises to students for skills development and assessment. Currently, exercises in C/C++, Java, Python, and Ruby are supported. Because Cloud Coder is web-based, it is easy for students to use. The only software students need to work on exercises is a web browser. The workshop introduces the idea of programming in online environment and implementing incremental coding in programming.

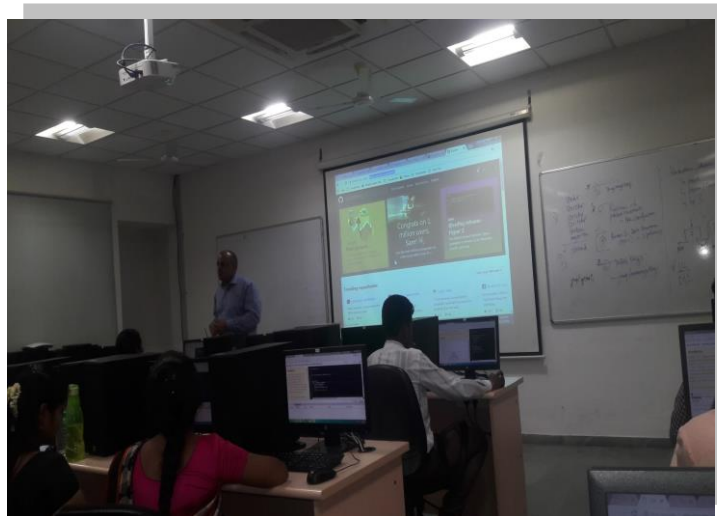


Grid and Cloud Computing

Mr. Balachandar Raju from Sri Eswar College, Coimbatore has handled a session on Grid and Cloud Computing on 21st September 2016. Students of Final year from Information Technology Department have actively participated in the Workshop. The session imbibed the awareness on cloud computing. Grid and Cloud computing is becoming prevalent in both academia and industry. Grid computing is a form of distributed computing in which an organization (business, university, etc.) uses its existing computers (desktop and/or cluster nodes) to handle its own long-running computational tasks. Cloud hosting provides organizations with virtual IT services from around the world, with no hardware, installation, or maintenance costs. Applications of the cloud computing are as business cloud apps used for social business/collaboration, file sharing, business productivity, and CRM/marketing testing.

QT

This workshop was conducted for CSE/IT Department faculty members of KITE. Qt, an open source development platform from Qt Software, a Norwegian unit of Nokia. Pronounced "cute," Qt is cross platform and can generate C++ code for Windows, Mac and Linux environments. ... Originally developed by Trolltech, which was founded in 1994, the company was acquired by Nokia in 2008.



Cryptography and Network Security

The Department of Information Technology had invited Dr. Harini and Dr. Shyamala for the Faculty Development Programme on Cryptography and Network security. The objective of the FDP is to train and develop Faculties to understand the latest trends in the field of Network Security and provide hands on training on various security tools.

Highlights:

1. The resource persons explained about the encryption and decryption mechanism.
2. Different algorithms were implemented and their outputs were discussed.
3. Mathematical principles behind various encryption techniques were discussed and practiced.
4. Introduced to possible internet attacks
5. Setting up intrusion detection systems and honey pots were shown.
6. Rootkit detection was made to check for any vulnerability.

TPDE - Maths

Prof. Krishnasamy from IRTT, has handled a session on TPDE-Maths on (03rd September 2016-04th September 2016). To acquaint the student with Fourier transform techniques used in wide variety of situations. To introduce the effective mathematical tools for the solutions of partial differential equations that model several physical processes and to develop Z transform techniques for discrete time Systems



MVC Design Pattern

The Department of Information Technology had organized a workshop for the student on MVC Design pattern by **MS. Bhavani AP/IT**. MVC is more of an architectural pattern, but not for complete application. MVC mostly relates to the UI / interaction layer of an application. You're still going to need business logic layer, maybe some service layer and data access layer.

Advantage

- Multiple developers can work simultaneously on the model, controller and views.
- Models can have multiple views.

Disadvantage

- The framework navigation can be complex because it introduces new layers of abstraction and requires users to adapt to the decomposition criteria of MVC.



SEMINAR

Back Office Solution for Institutional Broker

Dolphin is a capital market Clearing and Settlement system specifically designed to cater institutional and retail brokers and is capable of handling multi-exchange, multi-segments & multi-user. Thus the department of IT organized a guest Lecture on Back Office Solution for Institutional Broker(Dolphin). The lecture was delivered by Mr.Parthasarathe Palanisamy on 21.09.2016. He is the Vice President BFSI Practise, KGFSL, Coimbatore. The Highlights of the session was

- Global upstream and downstream systems interfacing
- Trade related RMS with any collateral type
- Real-time interface with trading systems and middle office allocation engine
- In-built & interlinked fixed deposit, trade settlement cash flow



Mr.Parthasarathe Palanisamy
Vice President
BFSI Practise, KGFSL
Coimbatore.



Ms. Shanthalakshmi Mohanraj

Senior Domain Trainer -
Capital Markets at KGISL
Coimbatore



Capital Markets

Ms. Shanthalakshmi Mohanraj, Senior Domain Trainer- Capital Markets, KGFSL, Coimbatore, shared some informative insights about the Indian and global markets. The session held on 17th September 2016. Aspects such as clearing operations, online trading, margins, settlements, derivatives futures and options, currencies, risk and volatility were covered in his session. He also spoke on fundamental aspects of capital markets. Students were hooked on to the session as the interaction had a lot of information and a little query session in the correct proportions!

FDP

Introduction to Python

The Department of Information Technology had organized a workshop for the student on Introduction to Python Programming by KGiSL team.

Short Note on Event:

- Python is a powerful multi-purpose programming language created by Guido van Rossum.
- It has simple easy-to-use syntax, making it the perfect language for someone trying to learn computer programming for the first time.

Highlights:

- **Extensive Support Libraries**

It provides large standard libraries that include the areas like string operations, Internet, web service tools, operating system interfaces and protocols. Most of the highly used programming tasks are already scripted into it that limits the length of the codes to be written in Python.

- **Integration Feature**

Python integrates the Enterprise Application Integration that makes it easy to develop Web services by invoking COM or COBRA components. It has powerful control capabilities as it calls directly through C, C++ or Java via Jython. Python also processes XML and other markup languages as it can run on all modern operating systems through same byte code.



Student Achievements

Add-on

S.No	Add-on	Duration	Total No of Students Benefited
1	Oracle	7 days	36
2	Java	7 days	25
3	Ruby on Rails	7 days	39

Editorial Board

Members

Dr.Vijaya G,
Mr.Rajasekaran S
Mr.Joel Anandraj E
Ms.Shirley Josphine Mary

Message

We feel delighted to see the students participating in different events and deliver their best. We assure that the Newsletter continues its commendable work in keeping you updated. The hard work shown by the students in such events and workshops is portrayed effectively by the College Newsletter.

KGiSL Institute of Technology

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