Dr.N.G.P.INSTITUTE OF TECHNOLOGY
COIMBATORE – 641 048.

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Department of Information Technology
Newsletter

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PROGRAMMES ORGANIZED

NATIONAL LEVEL WORKSHOP ON ETHICAL HACKING

One day National Level Workshop on **"Ethical Hacking"** was organized on **02.08.2014**. Dr.M.Sethumadhavan, Head – Centre for Cyber Security, Amrita University inaugurated the workshop. Dr.N.A.Vasanthi, Head of the Department – IT, welcomed the gathering. Then Dr.K.Porkumaran, Prinicpal presided over the function. Mr.Mani Deepak Choudhry, Assistant Professor – IT introduced the Chief Guest. A total of 100 participants from other colleges participated in the workshop. The following sessions were handled by resource persons from Centre for Cyber Security, Amrita University:

- Internet Security Protocols
- Digital Forensics and Cyber Laws
- Web Security and its issues
- Android Security

NATIONAL LEVEL WORKSHOP ON DATA ANALYTICS AND INTERNET OF THINGS

One day National Level Workshop on **"Data Analytics and Internet of Things"** was organized on **31.3.2015**. Dr.N.A.Vasanthi, Head of the Department – IT, welcomed the gathering. Dr.K.Porkumaran, Prinicpal presided over the function and Dr.C.Kailasam, Director S&H felicitated the gathering. The resource persons for the workshop are Dr.Pethuru Raj C, Cloud Architect, IBM Cloud Division, Bangalore Mr.Jeeva Chelladhurai, Senior Technical Manager, IBM Cloud Division, Bangalore. A total of 70 participants from various colleges participated in the workshop. The sessions handled by the resource persons are:

- Emerging Technologies
- Big Data and Cloud Computing
- Internet of Things
- Agile software development
- Hands-on session on Docker Technology

CSI WORKSHOP ON MICROSOFT WINDOWS AZURE

Two day National Level Workshop on **"Microsoft Windows Azure"** was organized on **06.03.2015 & 07.03.2015**. Mr.Raman Jindal & Mrs. Lakshmi Kothamasu, Mircosoft IT India, inaugurated the workshop. A total 25 participants from other colleges attended the workshop. The session handled by the resource persons are:
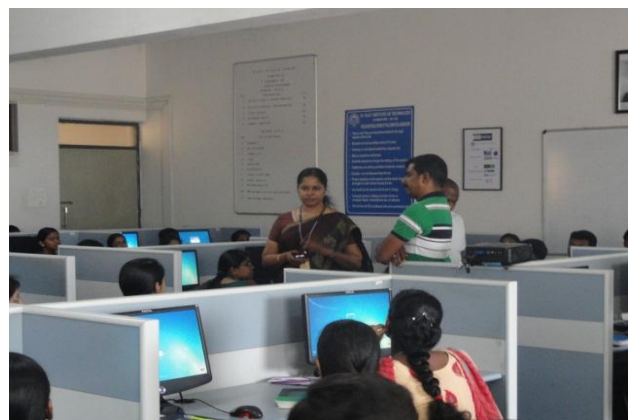
- Introduction to Azure Cloud Computing
- Introduction to Azure Web Services
- Introduction to Azure Cloud Services
- Introduction to Azure Features
- Working with SQL Azure
- Creating Server, Database and tables

WORKSHOP ON LINUX ADMINISTRATION

One Day Technical Workshop on **"Linux Administration"** was organized on **09.04.2015**. Mr.K.V.Shriram Assistant Professor, Department of Computer Science and Engineering, Amrita School of Engineering, Coimbatore was the resource person for the seminar. A total of 61 students from department of IT & CSE participated in the workshop. He handled the session on various topics such as:

- LINUX Commands
- LINUX Environment
- Working with LINUX Files.
- Linux Administration
- Setting up LINUX Server
- Virtualization

ANNA UNIVERSITY FACULTY DEVELOPMENT PROGRAMME

        Faculty Development Programme approved by **Centre for Faculty Development, Anna University, Chennai** was organized on the subject "**Service Oriented Architecture and Web Services**", from **03.07.2014 to 09.07.2014**. Faculty members from other institutions and the department faculty attended the FDP. FDP was inaugurated on 03.07.2014 by Mrs. Esther Daniel, Department of Computer Science and Engineering, Karunya University, Coimbatore. Dr.K.Porkumaran, Principal, Dr.N.G.P Institute of Technology presided over the function and Dr. N.A.Vasanthi, HoD, Dept. of IT, briefed about the topics to be covered in the FDP. The following sessions were handled by various resource persons:

- Introduction to SOA
- Web Services, Messaging with SOAP, Choreography
- Business Centric SOA, WSDL, SOAP Basics
- WS-BPEL Basics, WS – Choreogaphy & Security
- ASP. NET Web Services
- SOA Support in J2EE & .NET, Web Services Enhancements (WSE)
- Hands-on experimentation in SOA using J2EE & .Net was delivered by Adroit.

ASSOCIATION INAUGURATION

The association of our department **XEMAC** was inaugurated on **10.07.2014**. Dr.N.A.Vasanthi, Head of the Department - IT welcomed the gathering and gave a brief note about the IT Field all. Mr.Mouneswar. K of IV IT presented the Event Report for the Academic Year 2014 – 2015 Dr.K.Porkumaran, Principal, felicitated the gathering. Mr.Mani Deepak Choudhry, Assistant Professor – IT, introduced the office bearers of the XEMAC Association for the academic year 2014-2015. Ms.Aruna of IV IT, introduced the Chief Guest Mr. Sekar Sriram, Manager, Learning and Development, Pathfinder Business Analysis Pvt.Ltd. Mr.Sekar Sriram gave the Inaugural Address on Data Engineering and its opportunities in IT Field. Mr.Nagarajan.S of IV IT proposed Vote of Thanks.

PARENT TEACHER MEETING

Parents Teachers Association Meeting for IT Students was conducted on **09.08.2014**. Dr.N.A.Vasanthi, Head of the Department, welcomed the parents. The objective of the meeting is to improve the communication between parents and teachers for enhancing the educational facilities as well as to maintain harmonious relationship between parents and teachers for betterment of the student. Some of the parents shared their opinions and gave suggestion. Dr.K.Porkumaran, Principal and Dr.Thavamani D.Palaniswami, Secretary replied to the queries and suggestions.

EXTENSION ACTIVITITY - CSI GOLDEN TECH BRIDGE PROGRAMME

Computer Society of India was started in the year 1965. It has 500 branches and more than 1,00,000 members across the country. Computer Society of India has completed its 50 years of excellence and service in the field of Information Technology. To celebrate its 5oth year, they have been conducting various programmes throughout the year. In that, Golden Tech Bridge Programme is one part of the celebration. This programme is concerned with creating computer awareness for the rural school children and people. So, it had selected 50 colleges across the country and it was pride to have Department of IT of Dr.N.G.P.Institute of technology organized Golden Tech Bridge Programme on 09.08.2014.

CSI Golden Tech Bridge Programme for Computer Awareness was inaugurated by Mr.P.Subramani, Assistant General Manager, Revathy Equipments Ltd. The students of Government High School from Vaharayampalayam are beneficiaries from the programme. The sessions on Microsoft Word, PowerPoint and mail creation was handled by CSI Student members of IT Department.

CAREER ORIENTATION PROGRAMMES

- One day Career Orientation Programme was organized on 30.06.2014. Dr.N.A.Vasanthi, Head of the Department –IT, introduced the team from Keymind Learning India Pvt.Ltd. Mr.Anmol Vij CEO of the company delivered the lecture about skills required to tackle placements. Mr.Sakthi Kumar and Ms.Deepika conducted sessions on Career Guidance, Goal Setting and Time Management.

- One day Career Orientation Programme was organized on the topic "Employability Skills" on 02.01.2015. The resource person was Mr.Boopathy, Placement Director, Dr.N.G.P.IT. He discussed about the important skills required to get placed in reputed companies, recent trends in IT field and Interview Tips.

GUEST LECTURES

- Guest lecture on "Pre-Placement Preparation" was organized on 09.01.2015. Mr.V.Ramakrishana Moorthy, COO, Impiger technology delivered a speech about the details of company and their innovative products. He also shared his experience as an entrepreneur.

- Guest Lecture on "Professions and Professionalism" was organized on 10.2.2015 for the Final Year Students. The lecture was delivered by Mrs.Latha K Menon, Assistant Professor, Department of Science and Humanities, Dr.N.G.P.IT

FACULTY ORIENTATION PROGRAMMES

- The Faculty Orientation Programme for the odd semester was organized on 26.06.2014 and the following topics are handled by the faculty. Roles and responsibilities of tutors/class advisors were handled by Dr.N.A.Vasanthi, Student skill improvement was handled by Mr.T.Vijayakumar and Opportunities for IT Students was handled by Mr.D.Premkumar.

- The Faculty Orientation Programme for the even semester was organized on 29.12.2014 and the following sessions are handled. Importance of E-learning Tools was handled by Ms.R.Akileshwari, Subject-wise Orientation was handled by Dr.S.Santhi and Mrs.A.Praveena, Result improvement through counseling was handled by Mr.V.Thangavel.

STUDENTS ACHIEVEMENT & ACTIVITIES

University Rank Holder

S.No	Name of the Student	CGPA	University Rank	Batch
1.	V.ABIRAMI	8.63	47	2010-2014

Awards Received

Name of the Student	Nature of the Event	Organizer	Date	Prize Won
V.Pavithra	ISTE Best student Award	ISTE Tamil Nadu and Pondicherry section	2014	-
Arlin Anna Philp, Dhanusha N, Princy Simirna G Yagna Priyadharshini H	Techunt 2014 Project presentation	IIT Madras	26.09.14	Awarded a cash prize of Rs.10,000/-

Paper Presentation

Name of the Student	Nature of the Event	Organizer	Date	Prize Won
Sowmiya P		RVS College of Engineering and Technology	07.03.14	I
Suganthi V		RVS College of Engineering and Technology	07.03.14	I
Sujitha M	Paper Presentation	Dr.N.G.P IT	20.03.14	I
GokulKrishnan S		Dr.N.G.P IT	20.03.14	I
Yagna Priyadharsini H		CSI, Mumbai Chapter, IIT Bombay	31.01.2015	I
Dhanusha		CSI, Mumbai Chapter, IIT Bombay	31.01.2015	I

Project Presentation

Name of the Student	Nature of the Event	Organizer	Date	Prize Won
Surjeet Kumar S.K Sindhu S Sudhan Kumar S Karthikaa K.K	Project Presentation	Dr.N.G.P.IT	20.03.2014	I
Sowmiya P Gokul Krishnan S Sujitha M Dinesh S.V				II
Dhanusha N Princy Simirna G Yagna Priyadharshini H				III

FACULTY ACTIVITIES

WORKSHOP ATTENDED

1) Mr.Mani Deepak Choudhry, Asst. Prof., and Mrs.G.Krithika, Lecturer attended a Two days National level workshop on **Data Mining tools (Weka, Rapid Miner & R)** from 29.12.14 to 30.12.14 at Dr.N.G.P IT.

2) Dr.S.Santhi, Prof., attended Two days workshop on **Networking Technology Business and Knowledge driven Entrepreneurs** from 6.02.2015 to 7.02.2015 at Vel Tech Technology Business Incubator, Chennai.

SEMINAR ATTENDED

1)Dr.N.A.Vasanthi, Professor & Head attended a one day seminar on **Focus on Technology & Entrepreneurship** on 25.06.14.

2) Dr.N.A.Vasanthi, Professor & Head attended a one day seminar on **Are you learning as fast as the world is changing?** on 07.08.14.

3) Dr.N.A.Vasanthi, Professor & Head attended a one day seminar on **Quality in Education 2014**, Technology: Changing Dynamics of Higher Education on 14.11.14 & 15.11.14.

4) Mr.D.Prem Kumar,Asst.Prof., Mr.T.Vijaya Kumar, Asst. Prof. and Mrs.G.Krithika, Lecturer attended a one day **Technical Paper Writing** on LaTeX on 15.02.2015 at Dr.N.G.P IT.

FDP ATTENDED

1) Mr.T.Vijayakumar, Asst. Prof., Ms.M.Archana, Asst. Prof., and Ms.K.Mouthami, Asst. Prof., attended Six days ISTE - SRM sponsored STTP on **Big data Analytics and its Applications** from 05.05.14 to 10.05.14 at KSRCET.

2) Mr.Mani Deepak Choudhry, Asst. Prof., and Mrs.G.Krithika, Lecturer attended a seven days ISTE-PTU FDP on **Apache Hadoop and Big Data Technologies** from 23.06.14 to 29.06.14 at Dr.N.G.P IT.

NEXT-GENERATION ROBOTICS

Mr.D.Premkumar, Assistant Professor/IT

The popular imagination has long foreseen a world where robots take over all manner of everyday tasks. This robotic future has stubbornly refused to materialize, however, with robots still limited to factory assembly lines and other controlled tasks. Although heavily used (in the automotive industry, for instance), these robots are large and dangerous to human co-workers; they have to be separated by safety cages.

Advances in robotics technology are making human–machine collaboration an everyday reality. Better and cheaper sensors make a robot more able to "understand" and respond to its environment. Robot bodies are becoming more adaptive and flexible, with designers taking inspiration from the extraordinary flexibility and dexterity of complex biological structures, such as the human hand. And robots are becoming more connected, benefiting from the cloud-computing revolution by being able to access instructions and information remotely, rather than having to be programmed as a fully autonomous unit.

The new age of robotics takes these machines away from the big manufacturing assembly lines and into a wide variety of tasks. Using GPS technology, just like smartphones, robots are beginning to be used in precision agriculture for weed control and harvesting. In Japan robots are being tried in nursing roles. They help patients out of bed, for instance, and support stroke victims in regaining control of their limbs. Smaller and more dextrous robots, such as Dexter Bot, Baxter and LBR iiwa, are designed to be easily programmable and to handle manufacturing tasks that are laborious or uncomfortable for human workers.

Indeed, robots are ideal for tasks that are too repetitive or dangerous for humans to undertake, and can work 24 hours a day at a lower cost than human workers. In reality, new-generation robotic machines are likely to collaborate with humans rather than replace them. Even considering advances in design and artificial intelligence, human involvement and oversight will remain essential.

There remains the risk that robots may displace humans from jobs, although previous waves of automation have tended to lead to higher productivity and growth, with benefits throughout the economy. Decades-old fears of networked robots running out of control may become more salient as next-generation robots are linked to the Web, but at the same time they will become more familiar as people employ domestic robots to do household chores.

PLACEMENT ACTIVITIES

Career Prospects

Engineers in this field are the backbone of any industrial application across the globe. The main objective of the department is to produce professional engineers who are capable of analyzing, specializing, designing and maintaining complex computing systems. In order to support the placement activities, soft skill trainings are conducted in topics such as Quantitative Aptitude, Reasoning, Verbal Aptitude Training, Who Am I, Power 2 Perform, Express & Explore, Group Discussion and Interview process.

Value added programmes are conducted in the following latest technologies to enhance the knowledge of the students:

- Advanced Cloud Computing
- Mastering Servlet in JSP
- Mobile Application Development

In this Academic Year, students got placement in the following leading companies:

- Hewlett Packard
- NDOT Technologies
- EP Software Technologies
- Tratum Technology
- CSS Corp
- DURA Tech
- VEE Technologies
- Auro Technology

- Mphasis
- Cognizant Technology Solutions
- Impiger Technology
- Exterro
- NY Systems
- Financial Software Services
- URC Infotech
- Jemy Infotech