A guest lecture on CMOS VLSI Design Circuits and Systems was conducted by Mr. Venugopal D. Kulkarni on 1st October 2013. Students of M.Tech VLSI, Electronics and Embedded course were present for the lecture.

Ms. Shubhangi Giripunje, Associate Professor, Electronics Engineering, G. H. Raisoni College of Engineering, Nagpur has attended a five days ISTE Workshop for coordinators on “Signals and System”. The workshop was under the National Mission on Education through ICT (NMEICT) MHRD government of India. The G.H.Raisoni College of Engineering is a Remote Centre for distance education. The workshop was conducted by IIT, Kharagpur during 30th September to 4th October 2013.

Department of Electronics Engineering, GHRCE organized a one day workshop on Xilinx DSP Design Flow in collaboration with Coreel technologies, Pune. The basic aim of workshop was to explore the basics of DSP with Matlab, simulink, system generator, filter designing alongwith Xilinx design software. Mr Mayur Deshmukh was the resource person of the workshop. Prof.P.H.Rangaree was the coordinator of the workshop along with Mr.Pawan Raut & Mr Nitin Patil. Twenty four participants enthusiastically participated in the event out of which many more participants were from different colleges of Vidarbha region. The inauguration of the event was done at the hands of Dr.A.Y.Deshmukh, Dr.S.S.Dorle, HoD(Electronics) and Prof.S.D.Giripunje.

Department of Electronics Engineering, GHRCE organized National Conference on “VLSI Design, Embedded System & Signal Processing” [NCVDES-13] in association with Cadence India, Entuple Technologies Pvt. Ltd., Bangalore and GHR Labs on 25th to 26th September 2013. The conference had good discussion on the quality research findings of various research scholars working in the allied micro area of the theme of conference. It was inaugurated by the hands of Mr. Nitin Bahl, Country Marketing Manager-India, Motorola Solutions. Dr. Preeti Bajaj, Director of GHRCE focused on need of national conferences for research findings and patents during her speech. Deputy Director Dr.P.B.Nagarnaik and Dr. A.Y.Deshmukh, Dean R&D Dr. S.B. Jaju, Head of Electronics Engineering Dr.S.S.Dorle and convener of National Conference Prof. Shubhangi Giripunje were also present for the inaugural ceremony of the event.

Prof. Shubhangi Giripunje, GHRCE, Nagpur, Attended Workshop at IIT Kharagpur

A guest lecture was conducted on CMOS VLSI Design Circuits and Systems in GHRCE, Nagpur

Department of Electronics Engineering, G.H. Raisoni College of Engineering, Nagpur had organized National Conference NCVDES-13 in association with Cadence India, Entuple Technologies Pvt. Ltd., Bangalore and GHR Labs on 25th to 26th September 2013. The conference had good discussion on the quality research findings of various research scholars working in the allied micro area of the theme of conference. It was inaugurated by the hands of Mr. Nitin Bahl, Country Marketing Manager-India, Motorola Solutions. Dr. Preeti Bajaj, Director of GHRCE focused on need of national conferences for research findings and patents during her speech. Deputy Director Dr.P.B.Nagarnaik and Dr. A.Y.Deshmukh, Dean R&D Dr. S.B. Jaju, Head of Electronics Engineering Dr.S.S.Dorle and convener of National Conference Prof. Shubhangi Giripunje were also present for the inaugural ceremony of the event.

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Prof. Shubhangi Giripunje presented her Doctoral Research work in International Workshop (HUMASCEND) under International Conference (IEEE SMCS) held at Manchester UK.

The Doctoral Research work of Prof. Shubhangi Giripunje, has presented under "PhD Track" for the 'International Workshop on Human-Machine Systems, Cyborgs and Enhancing Devices' which was organized in conjunction with IEEE International Conference on System, Man and Cybernetics-2013 (IEEE SMC-2013) at Manchester, United Kingdom on 12th-13th October, 2013. The presented work titled as “A Design & Implementation of Facial Action Tracking and Emotion Recognition based on Non-Intrusive Parameters” carried out under the guidance of Dr. P.R.Bajaj, Director, GHRCE, Nagpur.

Department of Electronics Engineering organized a two day workshop on "VLSI Design Using Cadence EDA Tools" in association with Entuple Technologies Pvt.Ltd. Bangalore on 30th September and 1st October 2013. The aim of workshop was to give an overview and experience to the participants on the state-of-the art EDA tool for VLSI Design. This workshop comprised of lectures delivered by Mr.Srikar Talla, senior application engineer, Entuple Technologies Pvt.Ltd. Bangalore and Mr. Venugopal D. Kulkarni, Technology Consultant CMOS VLSI Design Bangalore followed by hands-on training on CMOS Analog and Digital design.

Co-ordinator of workshop was Prof. A.D.Tete along with the team of Mr.Deepanshu Payasi, and Mr.Rakshit Rangari. Twenty nine participants could take advantage of workshop. Dr A.Y.Deshmukh, Deputy Director GHRCE, Dr.S.S.Dorle, Head of Electronics Engg. Dept., Dr.D.V.Padole, Mr. Srikar Talla, Mr. Shatrughan Ransubhe and Mr. Vikas Khare of Entuple Technologies were present during the Inaguration.

Prof. Shubhangi Giripunje presented research paper on IEEE International Conference on Systems, Man and Cybernetics (IEEE SMC 2013)

Ms. Shubhangi Giripunje, Associate Professor, Electronics Engineering, G. H. R. C. E., Nagpur has presented paper in IEEE International Conference on Systems, Man and Cybernetics (IEEE SMC 2013) organized at Manchester, UK from 14th to 16th Oct 2013. The paper title was "Emotion and Gesture Recognition with Soft Computing Tool for Drivers Assistance System in Human Centered Transportation" presented in session of Human Centered Transportation Systems –H05-02 sessions on 16th Oct 2013. The session chairs of this session were Koji Murai and Tadatsugi Okazaki. She is thankful to Dr. Preeti Bajaj, Director GHRCE, Nagpur for her guidance and support.

Department of Electronics Engineering presented paper on IEEE International Conference on Systems, Man and Cybernetics (IEEE SMC 2013)


Two day Workshop on “VLSI Design Using Cadence EDA Tools” Organized in Electronics Engineering Department at GHRCE.
A new method of data storage that converts information into DNA sequences allows you to store the contents of an entire computer hard-drive on a gram's worth of E. coli bacteria...and perhaps considerably more than that.

Bacteria are nature's hardiest survivors, capable of surviving just about any disaster that would finish off a regular hard drive. Besides, bacteria's natural reproduction would create lots of redundant copies of the data, which would help preserve the integrity of the information and make retrieval easier.

Preparing traditional data for storage inside bacteria is simple enough. There are four DNA bases that can be used to make up the DNA strings: adenine, cytosine, guanine, and thymine. That basically means we’re working with a four number system, also known as quaternary numbers.

Consider to convert a simple word "iGEM" into DNA-ready code. They used the ASCII table to convert each of the individual letters into a numerical value (i=105, G=71, etc.), which can then be changed from base-10 to base-4 (105=1221, 71=0113, etc.). Finally, those numbers can be changed into their DNA base equivalents, with 0, 1, 2, and 3 replaced with A, T, C, and G. And so iGEM becomes ATCTATTGATTATGT.

As it is not possible not to store complete data in a single bacteria, so it is necessary to fragment the data and store it in different bacteria in the form of: header, message, and checksum which basically consists of zone, area, region and district to place the fragmented data in proper place.

After data is fragmented and placed in different cells, to retrieve the data decrypted would take the DNA and run it through what’s known as next-generation high-throughput sequencing, or NGS.
Crawling across the floor  
Trapped behind closed doors  
Never wanting more

Do you remember childhood  
Rolling through the grass  
Excited for class  
Watching time pass

Do you remember childhood  
Pedaling on your bike  
The boy you still like  
Sad when the bell strikes

Do you remember childhood  
Driving down the road  
Those looks made with code  
Your love always showed

Do you remember childhood  
When he broke your heart  
And it was just the start  
You are no longer art

Do you remember childhood  
When childhood was still there  
And your heart wasn't bare  
And people would care

Do you remember childhood?  
I can't remember childhood

Great ambition is the passion of a great character. Those endowed with it may perform very good or very bad acts. All depends on the principles which direct them.  
-Napoleon Bonaparte

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