MAHAVIR EDUCATION TRUST'S

SHAH AND ANCHOR KUTCHHI ENGINEERING COLLEGE

DEPARTMENT OF INFORMATION TECHNOLOGY

Certificate of Participation

Mr./~~Ms.~~ Parth Doshi

has participated in

WORKSHOP

on

"MY PHONE - MY APP - USING ANDROID"

organized by

Department Of Information Technology

in association with

ISTE SAKEC STUDENT CHAPTER (MH-122)

held on 12th September, 2015.

Harsh Shah

Mr.Harsh Shah
General Secretary
(ISTE SAKEC Student Chapter)

Pramila

Ms. Pramila Shinde
Event Co-Ordinator
(Asst. Prof., IT Dept.)

Swati

Ms. Swati Deshpande
I/c HOD
(IT Dept.)

Spoken Tutorial

Certificate for Completion of C Training

Talk To A Teacher

This is to certify that **PARTH DOSHI** has sucessfully completed **C** test organized at **Shah and Anchor Kutchhi Engineering College** by **Sonali Bhutad** with course material provided by the Talk To A Teacher project at IIT Bombay.

Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training. **SHRADDHA SARODE** at **Shah and Anchor Kutchhi Engineering College** invigilated this examination. This training is offered by the **Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt., of India.**

March 12th 2016

Prof. Kannan M Moudgalya
IIT Bombay

595264MCYG

D Y PATIL
RAMRAO ADIK INSTITUTE OF TECHNOLOGY
NAVI MUMBAI

RAMRAO ADIK INSTITUTE OF TECHNOLOGY

CSI-RAIT

TECHMATE

CSI-RAIT

Certificate of Participation

This is to certify that Parth Doshi

has participated in the Event Next Aim *Organised*

under the Technical symposium

TECHMATE 2015

TECHMATE

FROM 1ST,2ND AND 3RD OF OCTOBER, 2015

CSI-RAIT

Akshay Patil
President, CSI-RAIT

CSI-RAIT

Dr. Leena Ragha
SBC, CSI-RAIT

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RAMRAO ADIK INSTITUTE OF TECHNOLOGY
NAVI MUMBAI

RAMRAO ADIK INSTITUTE OF TECHNOLOGY

CSI-RAIT

TECHMATE

CSI-RAIT

Certificate of Participation

This is to certify that Parth Doshi

has participated in the Event Placement Mantra *Organised*

under the Technical symposium

TECHMATE 2015

TECHMATE

FROM 1ST,2ND AND 3RD OF OCTOBER, 2015

Akshay Patil
President, CSI-RAIT

Dr. Leena Ragha
SBC, CSI-RAIT

LiFi

Internet is a word but has an entire world into it. The growth of internet since its inception has been shocking.

But all the knowledge we have about internet is barely the tip of an iceberg. All that matters to us is the speed at which we can access the vast information available on it. And for speed, there have been several improvements happening constantly in the world of internet technology. The fastest resource known to us yet is fiber net which is internet provided using fibre optics which can give speeds upto 100MBPS which is 50 times faster than average internet speed of our country and approximate 20 times the global average. It is selectively available in Kansas city only. Also, WiFi makes up 60% of the total internet traffic globally.

WiFi is an accidental invention happened in 1992, that has proved to be a boon for netizens of the world. But it has its own cons. Signal let out by a WiFi router keeps deteriorating as the distance increases. It is also possible to catch an unauthorised signal and hack into it. The medium for carrying signals in WiFi is radio waves. WiFi uses radiowaves to carry data which has a frequency range upto 300 GHz.

LIFI:

The name suggests that it is similar to WiFi. But on what basis and upto what extent? A fact that will turn heads is that it is 100 times faster than WiFi. Yes, internet speed 100 times faster than the fastest internet speed available yet. To refer to values, cellular 4G network trending these days is 5-12 Megabytes per sec and LiFi test has a speed of 224 Gigabits per sec (28000 Megabytes per sec). WiFi stands for Wireless Fidelity and LiFi for Light Fidelity.

HOW DOES IT WORK ?

As mentioned earlier, WiFi works on radiowaves with frequency upto 300 GHz. LiFi works on the abundantly available resource, Light. Visible Light has frequency 430-770 THz. Also it has a spectrum 10000 times larger than radiowaves so it has almost no limitations to capacity. We all know that at its minutest level, data is a combination of binary bits. Light too has its On and Off state which can be used to transfer data in binary code.

The LiFi requires use of an LED which can switch state at a fast rate such that it is not noticed by the human eye. Also, data will travel in parallel rays of light so that larger amount of data can be transferred at a faster rate. An opaque object will prevent your information source to reach out to unauthorized receivers. The device anywhere within the range of light of the LED source will get connected to it and can avail this marvelous internet speed.

PARTH DOSHI
FE 4

01

"symbolics.com is the first and oldest registered domain name. It completed 31 years on 15 March '16."

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SHAH & ANCHOR KUTCHHI ENGINEERING COLLEGE

DEPARTMENT OF INFORMATION TECHNOLOGY

Certificate of Participation

Mr./Ms. Parth Doshi

has participated in **"Insight into Linux with Shell Scripting"**
organized by

Department of Information Technology
in association with

CSI SAKEC Student's Chapter
held on 26th September, 2015.

Mr.Aadharsh Krishnan	Mr. Lukesh Kadu	Ms. Swati Deshpande
Student Co-Ordinator	Event Co-Ordinator	I/c HOD
(CSI -SAKEC)	(Asst. Prof., IT Dept.)	(IT Dept.)

Ref No: CSI/IT/LSP-09

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Mahavir Education Trust Chowk, W.T. Patil Marg, Near Duke's Company,
Chembur, Mumbai - 400 088. Phone :25580854

VERVE

IEEE SAKEC's Nucleus
Technology revolves here

SAKEC OLYMPUS

Certificate

This is to certify that

Mr/~~Miss~~. Parth Doshi

has been the Part Of

Literary Team

during the

Annual Collegiate Symposium for the year 2015-16

held at

Shah & Anchor Kutchhi Engineering College

Ref No. SAKEC/CORE/15-16/050
Place : Chembur,Mumbai

S. S. Hegde
Dean, Students' Affair

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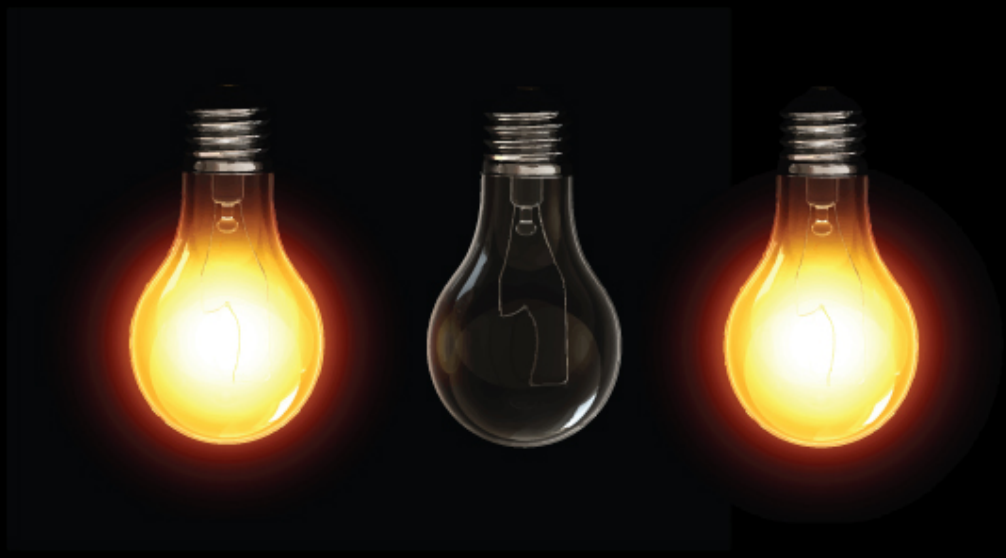
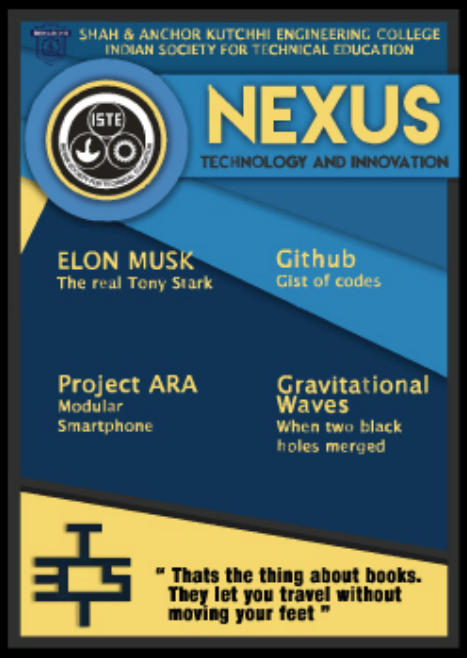
Aspire To Inspire

SHAH & ANCHOR



NEXtUS

Technology and Innovation



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Parth Doshi

for successful completion of

PC Assembly & Troubleshooting

conducted on 12th September 2015

Staff Co-ordinator
CSI-SAKEC

Student Co-ordinator
CSI-SAKEC

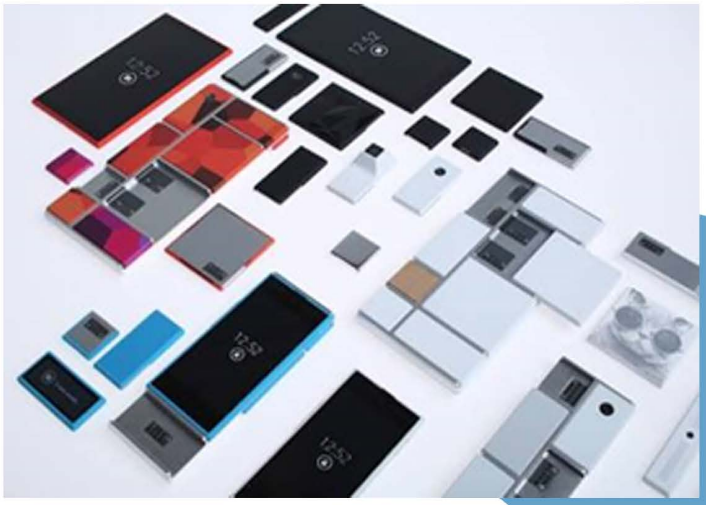
PROJECT ARA

Developed by Motorola Mobility which was in acquisition of Google at that time, Project Ara is a revolutionary idea in the field of smartphones.

Smartphones have become a common commodity in the world today. Everyone in recent times owns a smartphone.Some use it for purpose and some without any. But this growing demand has in turn led to a new problem which is electronic waste.

Lets have a glimpse at the history of smartphones.

The first smartphone was called Simon by IBM marketed in 1994, but wasn't anything even close to what our notion of smartphone is right now. currently, there are 2.6 billion smartphone users in the world. Current growth is leading



to the inference that there'll be 6.1 billion smartphone users by 2020. With this growing smartphone market, there are a lot of people who can afford to and actually do pick up a new phone more frequently whenever they get to know about a newer one coming into market. This has led to a huge amount of electronic waste generation. What often happens is that, there is not much innovation happening with every new device launched and a lot of them have quite similar specs, just having varying camera quality or maybe the Processing power. So many people dump the entire device and create a demand for the new one which leads to wastage. A Youtuber Dave Hakkens created a video about his idea on Phoneblocks which is basically a modular phone which is in the form of blocks which connect together to form a smartphone. Soon after that, Motorola revealed that it had been working on the concept of smartphone for more than a year. It is called Project Ara.

Here the idea of blocks is used as the idea of modules. Plan is to have one a base on which all the other modules will be mounted and the base will be available in multiple sizes depending on need and budget of the consumers. Then there will be separate modules for screen, camera, speakers, storage, etc. and when each module is mounted on the base, the modules get connected to form the entire phone. Its pros are whenever a particular part of your phone gets spoilt or else outdated, you have to only take that particular module and connect it. Also, the modules can be shared among a group of people. Which means that a group can contribute and buy a premium feature module and can all use it on their own base and avail the feature. It means that if one person in a family has a good camera, all have a good camera. The project is in the development stage and test runs have been successful..

PARTH DOSHI
FE-4

"Google's first ever Tweet on Twitter was in February 2009, and reads" I'm 01100110 01100101 01100101 01101100 01101001 01101110 01100111 00100000 01101100 01110101 01100011 01101011 01111001 00001010." Translating from binary into English, this tweet says "I'm feeling lucky.""

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Design Aspects in CMOS Analog Circuits, ASIC And MEMS

from 27th June 2016 to 1st July 2016

Prof. Nibha Desai
(Coordinator)

Prof. Subha Subramaniam
(Coordinator)

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W.T.PATIL MARG,CHEMBUR MUMBAI-88

Certificate of Volunteering

This is to commend & appreciate the presence of

Mr. Parth Doshi

as a volunteer in
ISTE approved
(Sanction No. ISTE/Proceedings/STTP-SF/2016-17 Dated - June 07,2016)
Short Term Training Programme on

"Design Aspects in CMOS Analog Circuits, ASIC and MEMS"

held from
June 27 to July 1, 2016
organized by
Department of Electronics Engineering,

Prof. Nibha Desai	Prof. Subha Subramaniam	Dr. Uma R. Rao	Dr. V. C. Kotak
(Co-ordinator)	(Co-ordinator)	(Head, Department of Electronics Engineering)	(I/C Principal)

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for successful completion of

UNITY GAME ENGINE 3D WORKSHOP

conducted on 29 AUGUST 2015

Staff Co-ordinator
CSI-SAKEC

Student Co-ordinator
CSI-SAKEC