

The Techno Chronicles

Department of Computer Science e-Newsletter, St. Bede's College, Shimla

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Volume 1, Issue 1

About The Department

The Department of Computer science was formed with the primary objective of providing best class education in the field of Information Technology. The department has been offering excellent IT facilities with the variety of computing platforms to aspiring professional students to meet the demands of IT industry. The department endeavors to produce confident professional students.



Objective

The objective of Computer science Department is to equip students with latest skills in the field of technologies supplemented with Practical Orientation to face challenges of modern computing industry.



COLLABORATION

The department of Computer Science is collaborated with Microsoft and is a member of MSDN Academic Alliance and Sai DigiTech Institute, Shimla for Tally Course.



ACHIEVEMENTS

Shruti Moudgil

- Scored the second prize in poetry for the inter college competition RHAPSODY held by University of Business Studies in Himachal Pradesh University.
- Got a merit certificate for poetry in 14th International Child Art Exhibition by Kshitij Art Society.
- Got a certificate of excellence in an Android Workshop organized by Robo Education India Pvt. Ltd. in association with Wissenaire IIT Bhubaneswar and third in the competition held in St.Bede's College.

Komal Thapa

- Got certification of appreciation in the ethnic Conexion at Explore, the National Level Socio-Cultural fest of Chitkara University, Punjab.
- Got a certificate of excellence in an Android Workshop organized by Robo Education India Pvt. Ltd. In ASSOCIATION With Wissenaire

IIT Bhubaneswar and third in the competition held in St.Bede's College.

Cherriying Dolma and Kashish Mahant also got certificate of excellence in an Android Workshop organized by Robo Education India Pvt. Ltd. in association with Wissenaire IIT Bhubaneswar and third in the competition held in St.Bede's College.

DEPARTMENTAL SEMINAR FOR THE STUDENTS

- **Ms. Raman Deep** and Ms. Amrit Kaur gave a presentation to BCA first year on decision control statements .



- **Ms. Monika Thakur** of BCA II year gave a presentation to BCA first and second year on cloud computing.

PRESENTATIONS BY FACULTY

A number of presentations were made by the teachers on different topics. Interactive boards were also used by teachers to make the lectures more interactive.

Few of them are listed below:

- Operating System concepts

- Secondary storage
- Computer Languages
- Memory management
- Process management
- Computer Networks
- Cloud Computing
- Green Computing

❖ **Presentations**

A number of Presentations were made by the students on different topics.

Few of them are listed below:

- Types of computer based applications
- Input, output and processing within a computer system
- Control structures
- Basic computer organization
- SDLC
- Feasibility study
- Data Flow diagram
- Maintenance and Reliability
- Cost and benefit analysis
- MS-DOS
- MS-Word
- MS-Powerpoint

- File organization
- Normalization

Lecture By The Expert

The Computer Science Department organized a guest lecture on “**PROJECT DEVELOPMENT**” for the

students of BCA I,II and III year by Dr. Ritu Sharma, Assistant Professor on 23rd September, 2014 in the computer lab. The objective of the lecture was how to develop a software/ application in a project. Dr. Ritu sharma emphasised on the importance of System Development Life Cycle in



the software development. She told the students the software can be made for the customer, end user, business and for management. The different stages of System Development Life Cycle was discussed with the students



Educational Trip

The Department of Computer Science organized one day Educational trip for the students of BCA IInd & III rd year. A group of 25 students along with two



teachers Ms. Neha Walia and Mr. Vikesh Kumar visited corporate office of Himachal Pradesh Power Corporation at Himfed Bhawan, Panjari, Shimla on 26th November, 2014. Students visited the controlling room and data center of HPPCL. Himachal Pradesh Power Corporation Limited (HPPCL) is a fast upcoming power generating utility with all the Technical and Organizational capabilities at par with other generating companies like NTPC/SJVNL/NHPC. Efforts are afoot to further strengthen the respective departments with professionals of proven credentials and qualified technical manpower. Mr. Hemant Bhardwaj, Mr. Arvind Goswami and Mr. Arindam guided and interacted with our students. A powerpoint presentation was shown to the students in the controlling room on the internal working of the corporate office. Students also visited the data center.

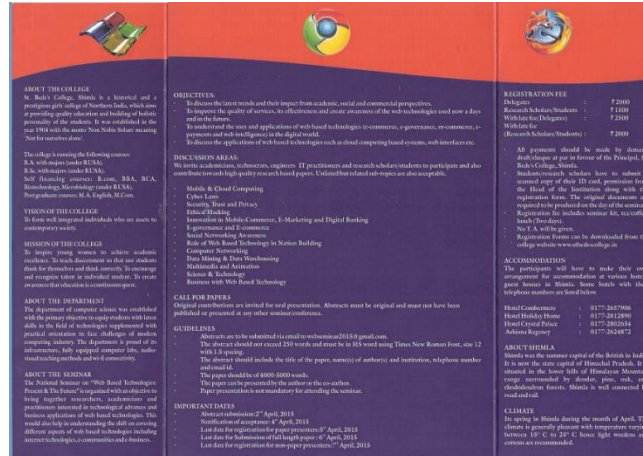
Cooperative Office, HPPCL View
of Data Center Data Center Visit



- **NATIONAL SEMINAR**

Department of Computer Science organized a 2 days National Seminar on 'Web Based Technologies: Present and the Future on April 30 - May 1, 2015

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OBJECTIVES OF THE SEMINAR

- To discuss the latest trends and their impact from academic, social and commercial perspectives.
- To improve the quality of services, its effectiveness and create awareness of the web technologies used now a days and in the future.
- To understand the uses and applications of web based technologies (e-commerce, e-governance, m-commerce, e-payments and web intelligence) in the digital world.
- To discuss the applications of web based technologies such as cloud computing based systems, web interfaces etc.

DISCUSSION AREAS:

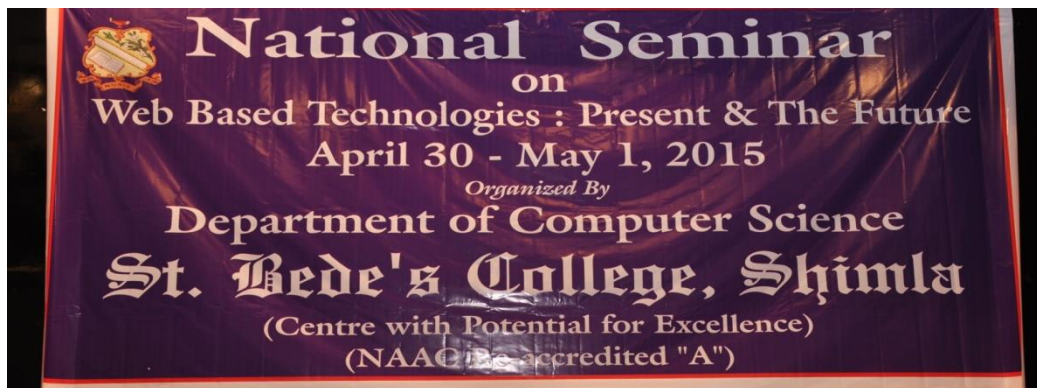
The discussion areas of the seminar:

- Mobile & Cloud Computing
- Cyber Laws
- Security , Trust and Privacy

- Ethical Hacking
- Innovation in Mobile Commerce, E-Marketing and Digital Banking
- E-governance and E-commerce
- Social Networking Awareness
- Role of Web Based Technology in Nation Building
- Computer Networking
- Data Mining and Data Warehousing
- Multimedia and Animation
- Science and Technology
- Business with Web Based Technology

FIRST DAY:

INAUGURAL SESSION



The inaugural session started with the welcoming of the Chief Guest Dr. Ganesh Hegde, Assistant Advisor, NAAC, Bangalore and the delegates. A number of delegates from Shimla and various parts of the country attended the National Seminar This was followed by lighting of the lamp by the

Principal of the College, Dr. (Sr.) Beena John, Dr. Ganesh Hegde, the Chief guest, College Manager Sr. Silvia, Ms. Nandini Pathania and Ms. Neha Walia. Ms. Neha Walia, the Organizing secretary of the seminar introduced the seminar. The guests were then felicitated. The inaugural address was delivered by the chief guest, Dr. Ganesh Hegde. In his address, he discussed the criteria wise assessment by NAAC of institutions of Higher Education. He emphasized on the importance of infrastructural learning resources. The souvenir of the seminar was then released.



Inaugural session

The keynote address was given by Dr. Manu Sood, Director, UIIT, Shimla. He spoke at length about Internet and World Wide Web and provided valuable information about the transfer of data and information sharing resources. The role of service providers, Cloud computing service was also discussed. The categories of web applications were document centric,

interactive, transactional, work flow based, collaborative and ubiquitous. He ended his key note address by saying 'We must use technology but with humility for humanity'. The vote of thanks was proposed by Nivedita Bhardwaj Sharma.



PLENARY SESSION

The Plenary session was held at 12 p.m. on the theme 'Web based Technologies: Present & the Future'. The chairperson was Prof Arvind Kalia, Department of Computer Science, H.P.U, Shimla. The panelists were Dr. Karan Jeet Singh Kahlon, Department of Computer Science & Engineering, GNDU, Amritsar, Dr. Shuchita Upadhyaya Bhasin, Professor, Department of Computer Science Applications, Kurukshetra University, Kurukshetra, Mr. Jawahar Thakur, Associate Professor, Department of

Computer Science, H.P.U, Shimla and Mr. Sanjay Sharma, Principal Systems Analyst, National Informatics Centre, Government of India. The rapporteur of the session was Ms. Nivedita Bhardwaj. Dr. Arvind Kalia started the discussion by introducing the members of the panel and said that it was important to know about the past of the Web based technologies before discussing their present and future scenario. Dr. Karan Jeet Kahlon was of the opinion that there had been an explosion of information but we have to deal with it with wisdom. The future of web technologies was bright. Dr. Shuchita Upadhyaya Bhasin spoke about the Emerging web technologies. High density websites were user friendly, she pointed out. Content management system could add modified content on the Internet. It was an anchoring system for users without the knowledge of web development. Mr. Jawahar Thakur then traced the journey from Web I version to Web IV version. He emphasized upon the challenges at the level of the service provider. Security was one of the big threats, he said. Mr. Sanjay Sharma presented the point of view of the industry and the Government of Himachal Pradesh. The functioning of all the departments could be assessed on their respective websites. The relevance of Lok Mitra Kendras was also discussed. The Government of India had decided to make Web technology a part of working of the Panchayats.



TECHNICAL SESSION-I

The first Technical session was organized at 2.30 p.m. on the theme 'Universal Networking language: A Web based Solution to bridge Language Barriers'. The chairperson of this session was Dr. Shuchita Upadhyaya Bhasin. The speaker of this technical session was Dr. Parteek Kumar Bhatia, Assistant Professor, Department of Computer Science & Engineering, Thapar University, Patiala. The rapporteur of the session was Ms. Madhu Pahwa. He mentioned about the Digital Divide which was the gap between those people who had access to and no access to digital devices. In India, only 12 percent people used Internet though in terms of usage, were at the third position in the world. The Language barrier affected the Digital Divide as about 55 percent of the web content was

available in English. The Content on the websites in Hindi was very less resulting in many people not visiting these sites. Thus it was the need of the present times to introduce Natural Language processing as a tool for Inclusive Growth of the society. Some popular machine translation systems like Google Translate, Bing Translator were being used. He then explained the UNL concept supported by United Nations based on representing, organizing and retrieving of words in different languages. The students of the college actively participated by putting forth their queries to the experts in all the sessions.



TECHNICAL SESSION-II

The second Technical session commenced at 4 p.m. in different rooms where the delegates presented their research papers on various topics

consisting of Network Simulation tools, Automation and Regression Testing, Big data Analytical tools, Reading literature through Computer, Cyber Chondria, Web Neutrality, Cluster Algorithm, Stego Expert system, Collecting History on-line etc. With this, the proceedings of the first day ended.



SECOND DAY

TECHNICAL SESSION-III

The second day of the National seminar on Web based Technologies: Present & the Future started with the third technical Session beginning at 9 a.m. in which different aspects of web technology dealing with Social Networking, E-Commerce, E-Governance, I-Marketing, Mobile and Cloud computing, Ethical Hacking etc. were presented in the form of research papers.



TECHNICAL SESSION-IV

The fourth Technical session which commenced at 10.15 a.m. on the theme 'E – Governance in Power Sector'. The chairperson was Dr. Indu Chhabra. The speaker was Mr. Ved Prakash, Senior Manager, Himachal Power Corporation Limited, Shimla. The rapporteur was Ms. Priyanka Dhareula Rana. Mr. Ved Prakash emphasized upon the use of E-Governance in bringing in transparency in the working of the Government. He discussed the characteristics of good governance. The mission of E-Governance was to help the citizens, Government and its employees. The IT Act will take care of all the related problems, he said.

VALEDICTORY FUNCTION

The Valedictory function started at 12 p.m. by the welcoming of the Chief guest Prof. (Dr.) Ashwani Kumar, Pro-Chancellor, APG University, Shimla by Ms. Nivedita Bhardwaj Sharma. This was followed by lighting of the lamp by the Principal of the College, Dr. (Sr.) Beena John, Chief guest,

Guest of Honour and other dignitaries. The felicitation of the guests was then done.

The Guest of Honour, Dr. Ganesh Hegde congratulated the Department of Computer Science and the Principal of the College for organizing a Seminar on Web Technologies. IT literacy was extremely important for the students and the teaching fraternity. But he mentioned about the importance of spending time with the family too. Social networking should not become addictive, he pointed out.

The Valedictory address was delivered by Prof. Ashwani Kumar. He appreciated the dedication and the hard work put in by the Sisters who were



managing the College which had reached great heights under their patronage. He said that the Sky was no more the limit as the World Wide Web had travelled beyond the sky. The biggest problem was to change the mindset of the people. Education and Technology could change the way of life. Sophisticated technology need not be complicated but should be simple in design and user friendly.

The Proceedings of the seminar were then read by Ms. Nandini Pathania. The Vote of thanks was proposed by Ms. Neha Walia. The organizing team was then honoured by



the Principal of the College. The teachers of the Department of Computer Science consisting of Ms. Neha Walia, Ms. Priyanka Dhareula Rana, Ms. Nivedita Bhardwaj Sharma, Ms. Madhu Pahwa and Mr. Vikesh worked tirelessly in making this seminar a great success. The certificates of the seminar were then distributed to the registered delegates. The organizing team of Ms. Neha Walia, Ms Nivedita Sharma, Ms. Priyanka Rana, Ms. Madhu Pahwa, Mr. Vikesh Kumar ,Ms. Nandini Pathania, Mr. Vijay Sanoria, Mr. Susheel Gupta, and Mr. Manu Mahajan under the able guidance of



the Principal of the college, Dr. (Sr.) Beena John co-ordinated the efforts of the team members in making this seminar a memorable experience for all

Android workshop

Two days National Level Android workshop cum championship was held in the college from September 11-12, 2015 with the initiative of the Principal, Dr. (Sr.) Beena John, and the Coordinators, Ms. Neha Walia and Mr. Vikesh Kumar and faculty members Ms. Nivedita Bhardwaj, Ms. Priyanka Rana and Ms. Madhu Pahwa of the Department of Computer Science. This programme was organized in collaboration with Robo EduTech India Pvt. Ltd. in Association with Wissenaire, Indian Institute of Technology, Bhubaneswar. This training programme was held for the first time in Himachal Pradesh wherein 32 students of BCA were trained for one and a half day by Mr. Anuj Kumar Raghav from Robo EduTech Pvt. Ltd. The students were trained on Eclipse and Java software .



On the second day of the workshop, mobile application development competition was organized by which the students developed applications in teams

based (group of 4) on the previous training imparted to them.



After the completion of the workshop, the students were awarded with certificate of participation

by the Robo EduTech Pvt. Ltd. in Association with Wissenaire, Indian Institute of Technology, Bhubaneswar .The best three applications developed by the students were also awarded with the certificate of

excellence. The third best mobile application was developed by Ms. Komal Thapa, Ms. Shruti Moudgil, Ms. Kashish Mahant and Ms. Cherring Dolma, , the second best mobile application was developed by Ms. Monika Thakur, Me. Shriya Sharma, Ms. Ankita Sharma and Ms. Nikita Chauhan . The best application was developed by the group of Ms. Amrit Kaur, Ms. Ramandeep Kaur Bedi, Ms. Deepti Thakur, and Ms. Arpita Sood. Such programmes will also be organized in future for the enhancement of job opportunities for the students.



Teacher's day celebrations

The students of BCA 3rd year organized a party for the teachers for the teacher's day celebration in the computer lab.



Visit to Portmore School

Students of BCA 3rd year organized a seminar on computers to the students of Portmore School, Shimla. A group of 15 students along with



two faculty members Ms. Neha Walia and Ms. Madhu Pahwa visited the school on October 15, 2015. They interacted with the students of class 1 to Class 8.



Workshop on Opportunities in IT Sector



A workshop on **Opportunities in IT sector** was conducted on July 25, 2016 at 11:00 am by Mr. Sanjiv Sood in lab2 BCA department in which various job opportunities and other aspects were discussed.

Many brain storming exercises to enhance the concentration of students. The various mantras of a positive

attitude at your home or work environment.

Discussion about the 6 C's of personality-

1. Commitment
2. Correctness
3. Courage
4. Confidence
5. Correctness
6. Change Management

An interactive session where various questions related to personality analysis and computers were discussed. Students were told about the various job opportunities after BCA course in different sectors:

Govt. jobs

1. Web Assistant
2. IT Teacher
3. Computer Operator

Private Sector



1. BPO Sector
2. Customer Care Executive
3. Technical Executive
4. Database Administrator
5. Web Administrator

IT Sector

1. Web Assistant
2. Website Developer
3. Software Testing Engineer

Others

1. DTP Professional
2. Multimedia Engineer
3. Quality Engineer
4. Patent Engineer
5. Mobile app programmer

- Students also got to know how BCA student can compete or is different from B. tech. student-
 1. Studied more IT subjects than B.Tech Engineers.
 2. Exploring untraditional areas of IT.
 3. Self Employment through projects. Some of them are as follows:
 - a. NDLM (National Digital Literacy Mission).
 - b. Rural Youth Program(Teaching the children)Targeting Specialized Sectors like weavers,Apple growers of lahulspiti and kinnaur through digital marketing.
 4. Expertise in one of the Computer language, one database and one operating system.e.g knowledge of Windows, MS-Access, VB, C, C++, java.
 5. Good practical hand.

- Students were told about how NIELIT can help?
 1. Nodal Agency for supplying technical Man power to govt. sector in HP.
 2. Free for SC, ST candidates.
 3. Own study Material.
 4. Certificate on short term and long term course have professional recognition in govt. striate sector.
 5. Recognized channel for entry to good IT companies.
- Students were provided with some important job portals:
 1. <http://www.freshersworld.com/>
 2. <https://www.sarkarinaukriblog.com/>
 3. www.naukri.com
 4. www.eemis.hp.nic.in
- Students were also provided with some other portals for the preparations of exams and interviews:
 1. www.codechef.com
 2. www.geeksforgeeks.org
 3. www.nptel/videos.in
- The workshop was very interesting and motivational. Some very effective presentations and videos were shown which were motivational and mind changing. We got to know many things about our course, different job opportunities related to it. We also performed and enjoyed some personality check exercises.



Seminar on Project Development



A seminar on **Project Development** was conducted on August 3, 2016 at 2:00 pm by prof .Arvind Kalia in lab2, BCA department in which various aspects of project development were discussed. He discussed about the various phases and analysis of project development. Students were told about the

different techniques of project development. They also got to know about the designs and testing that needs to be done before developing a project. The maintenance and documentation of projects is to be done.



THE TOP CEOS OF WORLD



Timothy Donald "Tim" Cook (born November 1, 1960) is an American business executive, industrial engineer and developer. Cook is the current and third Chief Executive Officer of Apple Inc., previously serving as the company's Chief Operating Officer,

under its founder Steve Jobs.

Mark Elliot Zuckerberg (born May 14, 1984) is an American programmer, Internet entrepreneur, and philanthropist. He is



the chairman, chief executive officer, and co-founder of the social networking website Facebook. His net worth is estimated to be US\$51.2 billion, as of June 2016, ranking him as the 6th richest person in the world.

Satya Narayana Nadella (born August 19, 1967) is an Indian-born American business

executive. He is the current chief executive officer (CEO) of Microsoft. He was appointed as CEO on 4 February 2014, succeeding Steve Ballmer. Before becoming CEO of Microsoft, he was Executive Vice President of Microsoft's Cloud and Enterprise group, responsible for building and



running the company's Computing Platforms, Developer Tools and Cloud Computing Services.

Pichai Sundararajan (born 12 July 1972) known as **Sundar Pichai**, is an Indian



American business executive. Pichai is the Chief Executive Officer (CEO) of Google Inc. Formerly the Product Chief at Google, Pichai's current role was announced on 10 August 2015, as part of the restructuring process that made Alphabet Inc. into Google's parent company, and he assumed the position on 2 October 2015.

ZUCKERBERG AT IIT DELHI



On the importance of India in the global scheme of things

Talking about Facebook's keen interest in India, Zuckerberg added, **"Our mission is to connect everyone in the world. India is the largest democracy in the world and you cannot connect the world without connecting India."**

About their Free basics(Internet.org) initiative, he elaborated about how it is currently live in 24 countries across the world with about 15 Million users and their plans to expand it further. Talking about challenges faced in connecting more people to the internet, he noted that there are three main issues.

- **Availability:** Some users do not have access to data plans, smartphones or laptops to connect to the internet.
- **Affordability:** While some have access to basic smartphones, the cost of internet data poses a challenge.
- **Awareness:** Some potential users have access to internet enabled devices and can afford data, but don't have sufficient awareness and know-how about the benefits of being connected to the internet.

Facebook is looking to break these barriers by investing in new ways to bring connectivity to the masses. Some of their steps in that direction are a more optimised mobile app that consumes less data, initiative to beam internet down to remote places through **solar-powered airplanes** etc.

Technology the ultimate superpower?

A student asked Zuckerberg, what superpower he would want if aliens granted him one. His response was that technology is now giving people superpowers and went on to explain how Oculus rift will help people 'teleport' themselves to an alternate reality. He said, "**People can be in completely different places but will come together to experience something awesome. We could simulate gravity and play a game of ping pong in space, underwater, or anti-gravity conditions. Soon, you'll be able to put on a headset and go anywhere in the world they wish.**"

Facebook has shifted its focus from text and images and are now giving greater attention to videos on their platform. Zuckerberg added, "In this golden age of the Internet, videos are going to be the primary way to share ideas. But as rich as the video is in terms of telling a story, people want an even richer medium and that's where virtual reality comes in."

Does internet.org support net neutrality?

Zuckerberg added, "Yeah, absolutely. Countries are currently debating and figuring out what net neutrality needs to be. We've been working with authorities on regulation. It is really important that we have regulations that prevent companies from doing things that hurt people. For example if an operator is charging you extra or is making you pay more, regulations are going to prevent that. Good net neutrality provisions help people,"

Zuckerberg insisted that their intentions with Internet.org are pure and that the backlash so far has been from people who already have access to the internet. He said, "Most pushing for net-neutrality already have access to internet. But those who aren't can't sign an online petition for an increase in the Internet. We all have a moral responsibility to look out for those who don't have a voice,"

There is no 'magic'

Zuckerberg stated that in their entire journey there was no 'Eureka moment' and it didn't occur to him that it would go global as fast as it did. He said, **"I built the first version of Facebook to connect to people in my school. Then we just kept improving and building things along the journey. We just kept doing the next thing and people kept saying this is just a fad."**

Talking about future developments in the pipeline, he elaborated about an artificial intelligence project that would describe contents of photos to the visually challenged.

The elements of ideal startup

Zuckerberg noted that of late he has seen a lot of people who first decide to start a company and then think of an idea, instead of the other way round. He said, "All great companies that I know, started with people who cared about something. In most cases entrepreneurs who built great companies never expected that it would end up being as big as it did. So my advice is focus on what you care about and not the decision to start a company." He also believes that companies that have multiple founders are generally more successful. He added, **" As strong as one person is, there is no way, one person can deal with all issues of running a company."**

Multiple founders and a great team help keep you focused and more resilient. Zuckerberg cited names of his colleagues Sheryl Sandberg, Chris Hughes, Jay Parikh and others as the pillars behind Facebook.

Mistakes along the way..

When asked about what he considered his biggest mistake during his Facebook journey, Zuckerberg laughed and added, **"Only one? I made all kinds of mistakes. Anything you can think of from product to technical errors. I was a college student when I started and learnt everything by trial and error."**

He believes that instead of focusing on what mistakes one should avoid, one should instead focus on the ones that drive them and improve.

Amber alert

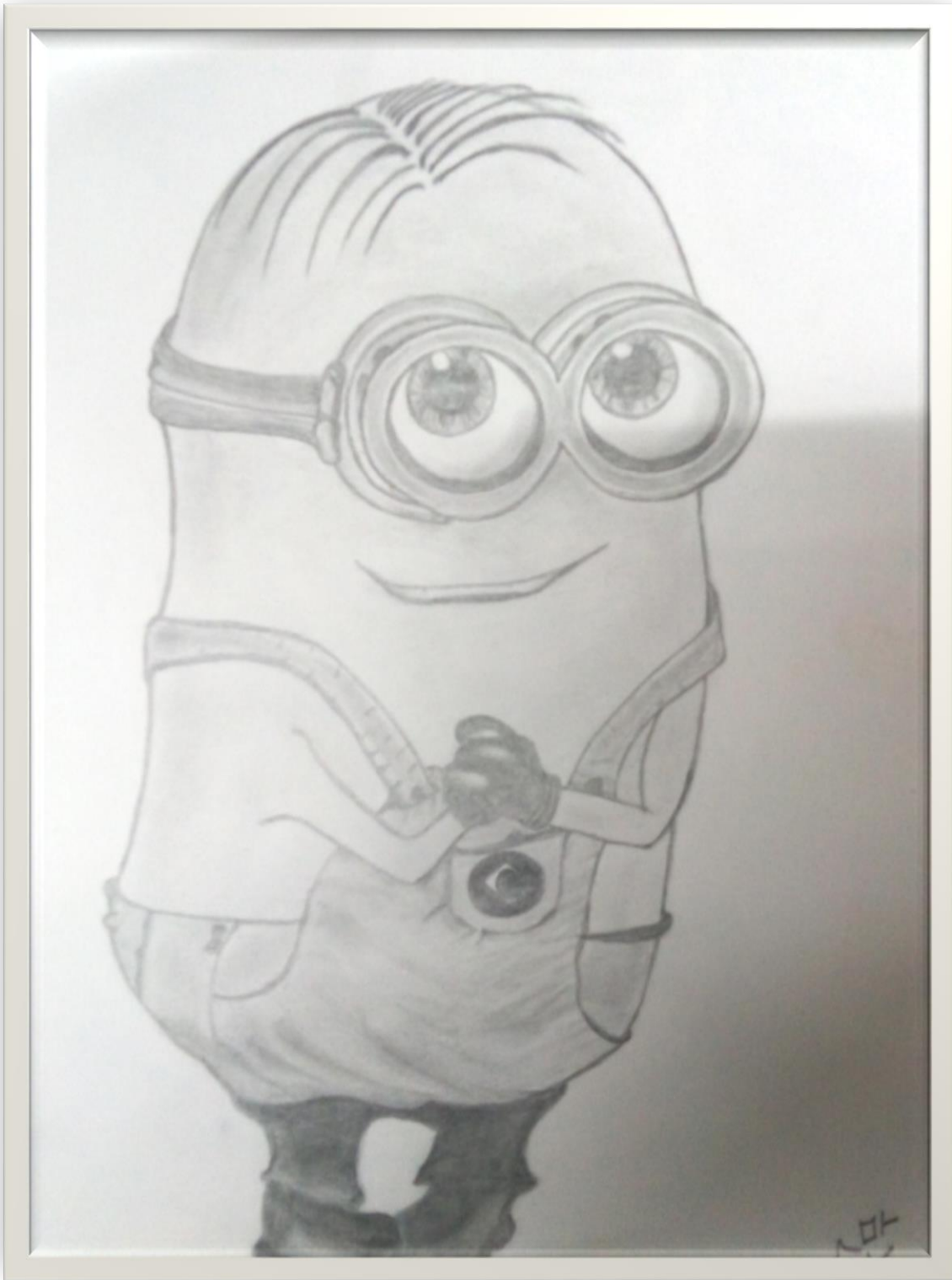
Social Media currently plays a big role in spreading awareness and real time information during calamities. **Regarding this Zuckerberg spoke about 'AMBER Alert' that is currently live in United States and Canada.** If children going missing in an area, Facebook shows images and other relevant details in specific users newsfeed to help identify and locate kids that are missing. Zuckerberg added that it had been about a year since the feature was launched and it has been received well by audiences with one child having been saved so far through the initiative.



Made by Shruti Moudgil BCA 5th sem



Made by Shruti Moudgil BCA 5th sem



Made by Suman Sharma BCA 5th sem



Made by Suman Sharma BCA 5th sem

HARD TO FIND

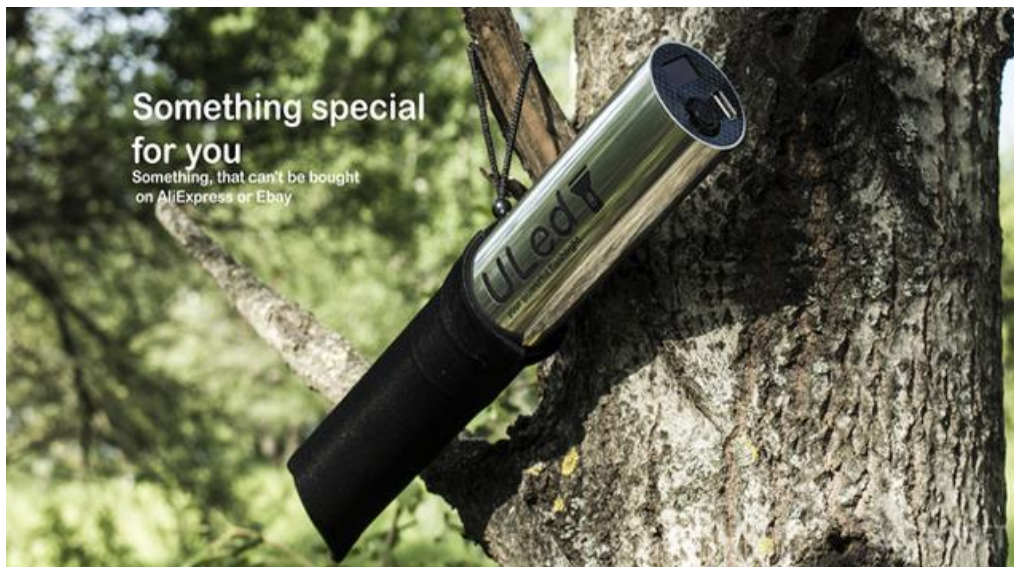
*How hard is it to find the hope,
When the hopelessness cleans your soul with the soap,
How hard is it to find a smile,
When tears give water to the barren like the Nile,
How hard is it to find the light,
When the darkness helps you to fight,
How hard is it to find a sweet voice,
When the noise is there all inside,
How hard is it to find a helping hand in need,
When cruelty is all you ever feel,
How hard is it to feel calmness in your heart,
When all this while you've become fond of the storm from the start,
How hard is to find a dream,
When you find a dreamless night better and without any scream,
How hard is it to find the warmth,
When the chill is the one that always prompts,
How hard is to find the twinkling eyes,
When the blank eyes are calm and speak no lies,
How hard is it to clean your soul,*

*When your dirty soul is makes you glow,
How hard is it to find the sweetness,
When the bitter ness makes the sense,
How hard is it to find give,
When taking gives you more to live,
How hard is it to climb up high,
When you are happy on the ground and don't wanna fly,
How hard is it to find the kyes,
When in lock you feel safe and free,
How hard is it to look for beauty,
When ugliness makes it no compition for duty,
How hard is it to find a bride,
When a widow is more strong and thus feels the pride,
How hard is it to find the value of life,
When the fear of death makes you feel alive,
How hard is it to be smooth,
When roughness makes it hard to for evil to move,
How hard is it to be full,
When emptiness make you realize the peace of being null,
How hard is it to over come challenges in your life,
When the chalanges make you sharp and fine.*

BY: - SHRUTI MOUDGIL BCA 5th sem

1. Innovative ULed Flashlight with the brightness of 8000

Many are probably faced with a problem, when the conventional flashlight



is not enough light to illuminate the area at night. Solve this problem will help the new LED flashlight ULed, which developers called the

most powerful in its class. Brightness news reaches 8000 lumens, which is enough to almost turn night into day. At the same time the possibility of a flashlight ULed not limited. Thanks to built-in battery capacity of 20,000 mAh this device can be used to charge other devices, whether smartphones or tablets.

ULed has three brightness levels (low, moderate and high), as well as two modes to call for help. All the controls are located at the rear. There are the

USB-port for charging of the lamp or other device, a power button and a small screen that displays battery level, time to fully charge and ambient temperature

2. Portable Printer: technology of the future, or useless junk?



German designer has developed a portable printer. He fits easily in a bag. Did he meet the expectations of the users?

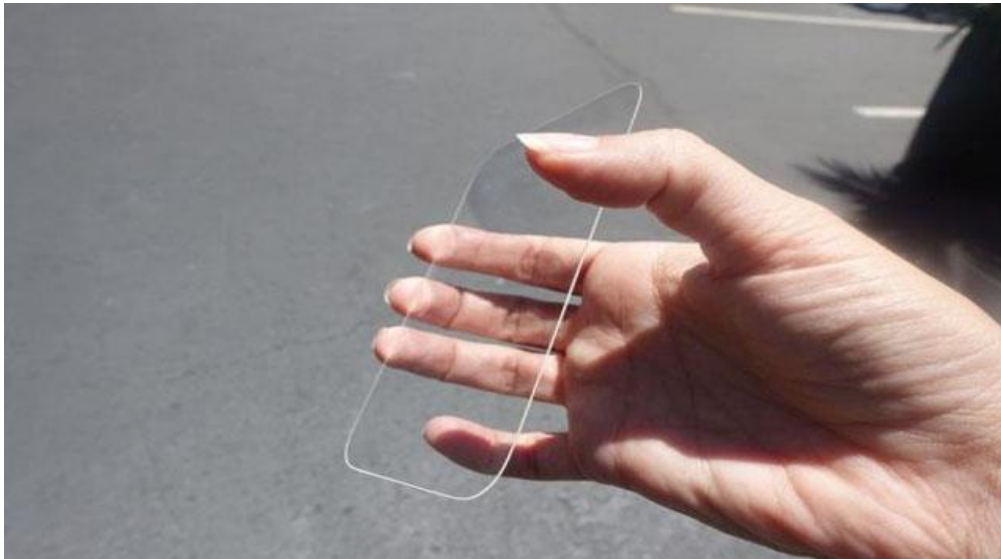
What we know about printers? Sufficiently large, occupying a lot of space and noisy devices, which are inconvenient to carry. All of them, from industry giants to tiny office workaholics, almost similar and hardly differ from one another. German designer Ludwig Rensch drew attention to this and developed a Paper – a portable printer that combines a printer and scanner functions (portable MFP).

Invention of Ludwig is completely independent, so you can take MFP in any trip. Instead of piles of sheets, Paper uses rolls of paper, almost no space, and in the presence of a network connection, a device can print any material – you can send him a job, even from your smartphone. Finally, instead of the cold office colors, the invention of Ludwig is painted in festive orange. Paper – is not the first such device

Anyway, the work of Rensch is not a direct competitor of office and home appliances, but because it is the world's first portable MFP, it can do a good

service, for example, on business trips, where you need to quickly prepare and sign paper documents.

3. Innovative the protective glass Gorilla Glass 5



The company Corning has announced a new generation of their “unbreakable” glass – Gorilla Glass 5. It is more durable glass screens to protect mobile devices from damage. Obviously, it is Gorilla Glass 5 will be used in the new smartphone iPhone 7, which is expected in September. Such similar protective glass used in the Apple models since their introduction in the market. However, the problem with broken displays of the iPhone were: users periodically dropped phones and damage did not save even a glass Gorilla Glass. With the new Gorilla Glass 5 likelihood of this decline significantly. According to the company, the new glass designed specifically to not break, even when the smartphone falls on a hard surface. So, in laboratory tests Gorilla Glass 5 are not broken in 80% of cases in the fall from a height of 1.6 m on a hard floor. This, the company says, is far superior to competitors’ results. New glass is expected to be used in the finished

product by the end of this year, which means the iPhone 7 has all the chances to get it.

4. Round anti smartphone



At last year's February exhibition MWC was presented an unusual "anti smartphone" Runcible. His appearance looked like a round pebble, or a kind of pocket watch. Authors device positioned it as "anti-social smartphone" designed to distract people from the mobile internet, however in Runcible provides access to Google Play, so that the software Runcible does not fully limited. More than a year developers have gone out of sight, and now the US company Monohm announced the launch of receiving pre-orders for this highly unusual smartphone. Runcible devoid of any buttons – on the front side there is only the touch screen on the back of the camera lens is present. Anti smartphone equipped with 2.5-inch display with a resolution of 640×640 pixels, the processor 4-core Qualcomm Snapdragon 410, 1 GB RAM and 8 GB of internal memory, a 7-megapixel camera, micro USB connector for charging models Wi-Fi 802.11b / g / n and Bluetooth 4.1. The operating system chosen BuniOS, developed based on the Android Open Source Project. Version Runcible Babbage with rear panel, done of fish caught in the sea and recycled plastic. Model Runcible Lovelace with the back panel from wood of arbutus tree. Upon successful completion the developers of the company's will try to

equip the devices with LT-enabled networks. Unfortunately, the exact start date Runcible sales in both its guises is currently no called.



ANDROID

IOS

MICROSOFT

• Android:

Available on a wide range of device sizes, weights and from a broad array of manufacturers. Android offers flexibility, personalization and a super slick tie in with Google's services like Gmail or Google Plus. If you're the person who sets up the family TV when it arrives, Android might be best for you.

Pros

- Available on a large range of devices. Flexibility.
- Google services experience is slick.
- Android has Widgets.

Cons

- Android is not about Simplicity
- Android does not have the best Reliability.

Apple's iOS:

Simple, reliable and consistent across Apple's range of products including iPads, Apple's IOS is familiar to almost everyone. You'll find compatible accessories everywhere you go, if you choose it. If you're new to 'smart' mobile phones or already have some Apple products in your home, Apple's iOS just could be right for you.

Pros

- Simplicity is Apple's strength.

- Apple offers Consistency
- across appIt's hard to fault
- Apple's reliability.s and platforms.
- There are a lot of accessories available.

Cons

- Device range is limited.
- Apple devices have apps but no tiles or Widgets.

- Apple products are not personalisable

Windows Phone:

Underrated, simple, stable, both personalsable and innovative, Windows Phone 8 is only let down by the number of apps which are available for it. If you love Nokia phones, have a family or run your own corporate IT team, Windows Phone 8 could be your ideal OS.

Pros

- Simplicity.
- Stability.
- Personalisable.
- Innovative software features.

Cons

- Less range of apps available for Windows Phone 8.

