

Report on Faculty Development Programme 2016



A three day Faculty Development Programme was organized for the faculty members of NHC-M and NHC-K at New Horizon College, Kasturinagar from June 21-23, 2016. The FDP focused on the most crucial areas of teaching-learning process. It emphasised on developing the teaching abilities through innovative delivering methods in the classrooms making the lectures interesting and more engaging for the students; calibrating learning keeping in mind the fact that students are exposed to a wider pool of information and the role of the teacher-facilitator lies in helping the students channelize such information for their growth;

mentoring in subtle but stronger ways to help students inculcate value based education. Besides this, the significance of "lesson plan" and preparation of a teacher before going to the class was propitiated through group activities. The sessions were facilitated by Dr.Girija Srinivasalu, Asst.Professor and Mr.Shanthakumar, Asst.Professor, New Horizon College of Education. The informative and interactive sessions were instrumental in motivating the faculty members to scale greater heights of academic excellence.

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Workshop on FOCUS

A workshop on "Focus" was held in NHC-M, in association with ISKCON, for the 1st semester BBA, B.Com and BCA students in Chanakya Seminar Hall of the NHC-Marathalli campus on 28, 29 and 30 June, 2016. The highly engaging and interactive sessions served to make the students understand the essence and benefits of focus, the reasons and consequences of not being focused in life and the means to enhance and maintain focus. As a key takeaway, yoga and meditation were stressed upon as the best ways to stay focused.



Report on "Capital Market Awareness"



A guest lecture was organised for the V semester students of BBA and B.Com on the topic "Capital Market Awareness" on the 14th of July 2016. The resource person, Mr. Rahul Dhawan, an expert Consultant gave an overview about BSE and the various components of Securities Markets such as Bonds, Stocks, Mutual Funds, Derivatives of securities (Futures, Options), Financial and Commodity Derivatives which constitute the Primary (IPO) and Secondary market. He gave the students an insight on the BSE Market Offerings such as Cash Market, Derivatives, Currency Derivatives, Interest Rate Derivatives, Debt Market Segment, ETFs/Mutual Funds and BSE SME Platform. Mr. Dhawan spoke about how an investor is protected if there are any grievances present and also explained about the grievance redressal mechanism. Mr. Dhawan, with apt examples, described the Capital Market operations through the Settlement System, e-trading, BOLT and De-mat accounts, the investment avenues available, various interest rates and returns, anticipated profits after investing etc. The key aspects of financial planning being financial goals, insurance, tax and retirement planning were discussed upon. He concluded the lecture by speaking about the three pillars of investing – consistency, liquidity and returns and also encouraged each and every participant of the lecture to start investing in the Capital Market.

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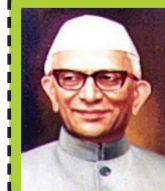


Open Forum

It is very simple to be happy, but it is very difficult to be simple.

Rabindranath Tagore

Mail your valuable thoughts within 200 words to: nhbytes@gmail.com



Quote Hanger

All good things are difficult to achieve; and bad things are very easy to get.

Morarji Desai

Freshers' Day 2016 @ NHC-M



Freshers' Day was organized at New Horizon College, Marathalli on Friday, July 15, 2016. The day was marked by enthusiasm, excitement and a tinge of nervousness wherein the first year BBA, B.Com and BCA students were whole heartedly welcomed into the New Horizon fraternity. The theme for the event was "mismatch". The celebration started off with a humorous disclaimer and the audience was kept enthralled throughout the event by mind blowing performances and entertainment. The highlight of the show was the nomination of Mister and Miss Fresher for the year 2016. Mr. Fresher 2016 title was awarded to Mr. Adhithan of I semester B.Com and Ms. Fresher 2016 was awarded to Ms. Shreya of I Semester B.Com. The programme concluded with a mock rock performance and the announcement of "DHWANI", the upcoming event that would help the college discover the myriad talents of the first year students.

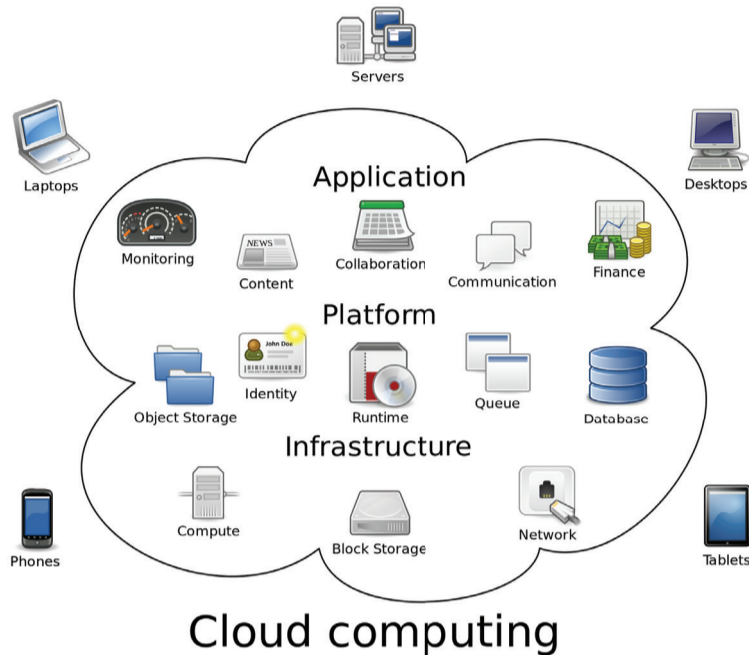
Guest Lecture on "Bridging the gap between Corporate and Academia" @ NHC-M



A guest lecture was conducted for the final semester B. Com students in Chanakya Seminar Hall at the NHC, Marathalli campus on the topic "Bridging the gap between corporate and academia with respect to non-IT companies". The speaker, Mr. Harish G. Kashyap, Lead Technical Consultant – Oil & Gas / Refineries, introduced the students to the topic through a motivational video and stressed on choosing a career out of true passion and to never chase after jobs. He urged the students to take up a profession which made them happy, which the world accepted and benefitted them and through which they could earn a living. He asked the students to choose unconventional jobs and careers which are blooming up in today's world scenario. Mr. Kashyap concluded by telling the various opportunities available in the oil and gas industry/sector like analytics, main stream, upstream, core services, accounting etc

Cloud Computing (CC)

Cloud Computing (CC) has become one of the frontier research areas of this decade. The National Institute of Standards and Technology (NIST) defines the cloud computing as, a model for enabling convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction. CC has emerged as a novel technology, in the paradigm shift from the traditional desktop-as-a-platform to internet-as-a-platform model. Users can access shared IT resources through internet-on-demand and they will be charged only based on their amount of consumption and this enables them to



use the cloud according to their own convenience. At the same time, the users will be unaware of where the services are hosted and how they are delivered in the cloud environment. Since the growth of CC is very fast, people can acquire the necessary software and computing facility at a faster rate. This helps to bring tremendous improvements in the IT business infrastructure and has become the modern trend in computing environment. CC has evolved from Grid computing. The on-domain resource provisioning is a distinguishable feature that gives improved environment over Grid Computing. Zhang et al. in provides a comparative study between CC and Grid Computing and discuss the advantages of Cloud over the Grid. Hence, CC will be the most preferred choice in computing world. Many research areas including technologies and infrastructure for CC are being explored by academicians and researchers. One such anthology has been provided by Rajkumar Buyya et. al, in which a few noticeable outcomes of the above are Abicloud (a CC platform developed by Abiquo, a company in Barcelona Spain), Open Nebula (an open source cloud service framework) and Nimbus (an open tool set and also a CC solution providing Infrastructure as a Service). Similarly, industrial organizations have contributed several cloud computing platforms such as EC2 (Elastic Compute Cloud, enables users to run Linux-based applications) from Amazon, Azure from Microsoft, App Engine from Google, Sun network.com (enables the user to run Solaris OS, Java, C, C++ and FORTRAN based applications). Since each platform has its own characteristics and advantages, it is a real challenge for the users to make an unbiased choice. Junjie Peng et al., analyze several platforms and provide a comparative study between them. This enables the users to get a better understanding of the different platforms available and provide guidelines to choose the most appropriate one. In short, it will be suitable to identify the various platforms for CC and also the advanced features of cloud over Grid, so that, this will benefit the upcoming cloud users.

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NHC-M takes V BCA to Cognizant Technology Solutions & Manyata Tech Park

The V Semester students of BCA had been taken for the industrial visits at COGNIZANT TECHNOLOGY SOLUTIONS & MANYATA TECH PARK under the supervision of Mr.Nagaraju Kilari, HOD, BCA and Mr.Rajesh, Senior Assistant Professor. The students had also attended a Technical Session on "SMAC" handled by the Industry experts. SMAC (social, mobile, analytics and cloud) is the concept that four technologies are currently driving business innovation. SMAC creates an ecosystem that allows a business to improve its operations and get closer to the customer with minimal overhead and maximum reach.

Special seminar "Invest under guidance"@NHC-M

A special seminar session was conducted at NHCM on "Invest Under Guidance" by Swami Krishnadasji, CA. The seminar focused on delineating the young minds with sound ethical values that would make them wise individuals and help them look at their lives with joy and contentment. In this competitive age, everyone is busy comparing the possessions with one another and is unaware neglecting

the dearly priced relations in and around them. Swamiji focused on this aspect of human mind and with the examples and precepts of the world of investment he explained the higher and ethereal goals that humans need to look for and achieve in their lives. Life exists beyond numbers in pages, what one needs to count is the positive things and erase negativity outside with the positivity inculcated inside.

Quantitative Aptitude #7

1. Which one of the following is a prime number ?
- A.161
 - B.221
 - C.373
 - D.437
 - E.None of these

Answer: Option C

Explanation:

437 > 22

All prime numbers less than 22 are :

2, 3, 5, 7, 11, 13, 17, 19.

161 is divisible by 7, and 221 is divisible by 13.

373 is not divisible by any of the above prime numbers.

373 is prime.

2. The smallest 6 digit number exactly divisible by 111 is:

- A.111111
- B.110011
- C.100011
- D.110101
- E.None of these

Answer: Option C

Explanation:

The smallest 6-digit number 100000.

111) 100000 (900

999

100

Required number = 100000 + (111 - 100)

= 100011.

3. The largest 5 digit number exactly divisible by 91 is:

- A.99921
- B.99918
- C.99981
- D.99971
- E.None of these

Answer: Option B

Explanation:

Largest 5-digit number = 99999

91) 99999 (1098

91

899

819

809

728

81

Required number = (99999 - 81)

= 99918.

4. The smallest 5 digit number exactly divisible by 41 is:

- A.1004
- B.10004
- C.10045
- D.10025
- E.None of these

Answer: Option B

Explanation:

The smallest 5-digit number = 10000.

41) 10000 (243

82

180

164

160

123

37

Required number = 10000 + (41 - 37)

= 10004.

5. In a division sum, the remainder is 0. As student mistook the divisor by 12 instead of 21 and obtained 35 as quotient. What is the correct quotient ?

- A.0
- B.12
- C.13
- D.20

Answer: Option D

Explanation:

Number = (12 x 35)

Correct Quotient = 420 ÷ 21 = 20

Four Things To Help Protect Kids Online

Follow these steps to help protect your children's privacy and safety when they're using the computer.

Step 1: Decide where your child can and can't go on the Internet

It's a good idea to visit some sites for kids. Pay particular attention when sites collect personal information. Read the privacy statement and, if you don't agree with it, search a little, to find a similar site that doesn't request personal information.

Block inappropriate content

One of the best defences against inappropriate content is to block it before you see it. With Microsoft software there are a few different ways you can do this.

Windows 8, Windows 7, and Windows Vista Parental Controls. Windows 8, Windows 7, and Windows Vista include a rich and powerful set of parental control features to help parents monitor, manage, and administer their children's computer use-and help keep them safe.

Xbox parental controls. Xbox includes parental controls that help you restrict your child's ability to play inappropriate games and watch inappropriate DVD movies.

Step 2: Increase your security and privacy

In addition to blocking inappropriate content, it's a good idea to block sites and downloads that might be a risk to your security and privacy.

Set limits on downloads. Free games, free music, animated toolbars, and other downloads can expose your computer to spyware or other unwanted

software. Depending on the ages of your children, you can teach them not to download software from unknown sources on the Internet or ask your permission before they download anything. This can help to keep unwanted software off of your computer. A child might accidentally infect your computer with spyware or other unwanted software. Some popular sites for kids might try to download programs without permission. To avoid this, monitor where your kids go online. For more information, see Step 3.

Use antivirus and antispyware software like Microsoft Security Essentials. Microsoft Security Essentials helps you detect, disable, or remove viruses, spyware and other potentially unwanted software. You can download it for free for Windows 7 and Windows Vista.

Create different user accounts. Windows 8, Windows 7, Windows Vista, and Windows XP allow you to create multiple user accounts for your computer. Each user logs on with a unique profile and his or her own Desktop and My Documents folder. You can give yourself an Administrator account and give your children Limited User accounts. Administrator accounts have full control over the computer. Limited Users cannot change system settings or install new hardware or software, including most games, media players, and chat programs.

Adjust web browser security settings. You can help protect your child through your web browser. Internet Explorer helps you control your security

and privacy preferences by allowing you to assign security levels to websites.

Step 3: Monitor where your kids go online

It might not be possible to be present whenever your children are online. But it is possible to check later to see where your children have spent their time online. By reviewing the History list in Internet Explorer, you can see all the places your children visited online. To view your Internet History, click the History button on the browser toolbar.

The parental controls in Windows 8, Windows 7 and Windows Vista can also help you monitor where your kids go online.

Step 4: Remind kids not to talk to strangers online Real-time chats, social networking, and instant messaging can be a great way for children to discuss their interests and build friendships. But the anonymity of the Internet can also put children at risk of falling victim to imposters and predators. To help minimize your children's vulnerability, teach them to take precautions such as:

- Use only a first name or nickname to identify themselves.
- Never disclose a phone number or address.
- Never send photographs of themselves.
- Never agree to meet someone they met online without supervision.

To help protect your children from being contacted by strangers while instant messaging, configure your software to allow only approved contacts.

**Rachana
3rd Sem
MCA 'B'Sec**

Five Big Data Analytics Tools



1. Hadoop

The popularity of this tools can be understood by the fact that hadoop and big data area used synonymously. The Apache Hadoop library delivers a framework which uses simple programming models for the distributed processing of large dataset across various connected machines. It has been designed to

overcome failures and errors at the applications layer, thereby delivering a high accuracy.

2. MapReduce

Mapreduce allows humongous scalability to thousand of servers in a Hadoop cluster. Literally, MapReduce can be divided into two terms, 'Map' and 'Reduce'. Map is used to convert a data set into another set of data by breaking down the data and creating tuples(key/value) pairs. The job of reduce is to take the data from 'map' and combines the key/value pairs into smaller tuples

3. GridGrain

Gridgrain provides dynamic methods of computing and storing data such as dynamic clustering, mapreduce processing, distributed closure execution, load balance and fault tolerance , distributed messaging and linear scalability.

4. HPCC

HPCC, also known as high performance computer clustering, is known to offer superior performance than Hadoop. This tool is available in both free version and paid version. It has an active community support across the globe.

5. Storm

Apache Storm is free and open source tool. It is easy to use and can be integrated with any programming language. it offers a reliably easy interface to perform real time processing, similar to what hadoop does in batch processing. It is a popular tools and is being used by the likes of Flipboard, Groupon, Twitter, Spotify, Yahoo(Japan), WebMD, Baidu and many more.

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5S Explanation



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