

ADOBE DIGITAL CENTRE OF EXCELLENCE

IS INAUGURATED AT NHCE ON 13TH OCT 2016.

NHCE IS THE ONLY INSTITUTE IN INDIA TO HAVE THIS CENTRE.



We are happy and proud to announce the inauguration of the 'Adobe Digital Centre of Excellence' on 13th October, 2016 at New Horizon College of Engineering. The Centre would be training the students on Adobe Suite of products and services. The executives from Adobe Systems will deliver critical application topics to the students as a part of the curriculum. The Adobe Experience Manager (AEM) curriculum has already been incorporated as an elective for the Engineering students. Wipro, in collaboration with New Horizon college of Engineering, has trained the faculties on Adobe Technology. Mr. Kulmeet Bawa, Managing Director of Adobe- South Asia, Mr. Rajeev Kumar Singh, Global Head- Campus Hiring, Wipro Technologies, Dr. Mohan Manghnani, Chairman, New Horizon Educational Institution, Dr. Manjunatha, Principal, New Horizon College of Engineering, Dr. Lakshminarayan, Director- Training & Placements, New Horizon College of Engineering were present during the inauguration of the 'Adobe Digital Centre of Excellence'.

INDUSTRIAL VISIT TO BHEL – Electro Porcelain Division, Bangalore



An Industrial Visit at Bharath Heavy Electricals Limited BHEL – Electro Porcelain Division, Bangalore on 15th October 2016 Organised by Prof. S.Sujitha and Coordinated by Prof. B.S Mohan from EEE Department for the Students of EEE (Materials in Electrical Engineering) in order to enhance their practical stimulation and to let them having an overview on the performance related to "Materials in Electrical Engineering" and "Ceramic Insulators" carried out by BHEL-EPD Bangalore. On Saturday 15th October 2016, the students of II Year and faculty of EEE Department NHCE had a chance to have a look at the manufacturing process of the porcelain disc insulators at BHEL. Mr.Raju, AGM, BHEL guided us to entire manufacturing process, starting from the raw materials needed for the process till the finished product. It is a tedious process where each step taken for the process goes for at least 6 days of observing and a overall of 24 days for completion of the product. Their main raw material is clay from Gujarat and Maharashtra and quartz are mainly used. The raw materials are then weighed and crushed in ball mills to prepare the slip. Then it is pumped to another ball mill where dewatering is done. It is then passed through pressure pads to make cakes and remove excess water. Then the cakes are passed through plunge mills where continuous cylindrical moulds are released which is then cut into desired length manually or automatically with the help of Jiggering machine. They are then checked and adequate mass is removed by placing it into a rotating wheel. It is then placed into chambers where it is dried at high temperatures. The testing and quality checking is done by applying high voltage. If the disc is perfectly alright it withstands the voltage or it breaks into two pieces and was stunning, the way testing took place. The entire process requires hard work and a time span of about 20-25days. Overall we had a great experience at the BHEL ceramic business.

Dr. Manjunatha, Principal, NHCE awarded by IET as an Eminent Engineer of the Year



GANDHI JAYANTI CELEBRATION BY NHCE LEO CLUB



NHCE LEO Club had organized Gandhi Jayanti Celebration on 3rd October 2016 at the Volley Ball Court by conducting tree plantation. The president of the function Dr.Manjunatha, Principal NHCE addressed the gathering about importance of celebration of Gandhi Jayanti. He also highlighted the importance of Swachh Bharat. In the beginning Dr. M S Ganesha Prasad welcomed the gathering. A few saplings were planted by the Principal, Deans & HOD's along with the faculty members and the students of NHCE LEO Club. Jute bags also distributed to all the members present at the event to create awareness on banning plastic and its products thereby initiating "GO-GREEN" activity on the campus.

Workshop on Arduino Department of EEE



The objective of the workshop is to provide an opportunity for student to get aware of ARDUINO There by developing a stepping Stone towards the development of an Embedded system. The venue was at Electric Circuit Theory lab of Electrical and Electronics Department, NHCE. **Coordinated by:-**Dr. R. Elumalai Prof & Head EEE Department, Prof Duney. D. Sam, Mr. S. Muniraj Lab Instructor, Mr. Shivam Tiwari 7th semester and his team. No of participants:-50 No's **Summary Report:-**The session was started at 10.00Am by an Introduction to ARDUINO by expert Dr. R. Elumalai, HOD EEE Department ,NHCE .By this session students had acquired in depth knowledge of ARDUINO and hence were and application in various Domain of present technological era. The second session started by 12.30 comprising of Hands on Training on lab. Conducted by Mr. Duney. D. Sam, Assistant professor, EEE Department, Mr. Muniraj Lab instructor, student Coordinator Mr. Shivam Tiwari 7th semester and his team. The Laboratory Session includes working of various peripherals including LED, Switches, Serial port, Light Dependent Resistance , Speakers , 7 segment display any many more. The response of the participants was tremendous and their enthusing last till the end of the session. This is the first Workshop in this series and few more workshops will be followed to make the students to understand the subject better.

SARASWATHI POOJA @ NHCE



The Goddess Saraswathi is worshipped as the Goddess of Learning, the deity of Gayathri, the fountain of fine arts and science, and the symbol of supreme vedantic knowledge. It is believed that goddess Saraswathi endows human beings with the powers of speech, wisdom and learning. She has four hands representing four aspects of human personality in learning: mind, intellect, alertness and ego. She has sacred scriptures in one hand and a lotus – the symbol of true knowledge – in the second. With her other two hands she plays the music of love and life on a string instrument called the veena. She is dressed in white – the symbol of purity – and rides on a white swan – symbolizing Sattwa Guna or purity and discrimination. The learned and the erudite attach greater importance to the worship of goddess Saraswathi. As a practice, people worship her for knowledge and wisdom. On the auspicious occasion of Dasara, the scared Saraswathi Pooja was celebrated with much reverence in the Library and Information Center on the October 7th 2016. Dr. Manjunatha, Principal NHCE, Deans, Hods, Teaching and Non-Teaching Staff members and students joined the auspicious pooja and received the blessing of Lord Ganesha and Saraswathi. Prasadam was distributed to all after Mahamangalarathi.

MCA Bridge Course 2016



Bridge Course for first year MCA 2016 Batch students was organized by Department of MCA on 19th & 20th September 2016. The program was started post lunch with Inaugural address by Dr.V. Ilango, HOD, MCA. He has briefed on company requirements, university ranks achieved and crash course on English communication for 1st year students. The Faculties who are handling classes for the First semester briefed on essentials of the respective subjects. Autonomous guidelines were given by Dr. R. Chinnayan, Associate Professor. The Day-1 of Bridge Course program was hosted by Mr. Mohammed Numan and Mrs. Anju, V semester students. Bridge Course Day-2 was hosted by Ms. Asha and Mr.Nischal inviting Dr. V. Ilango to give an enlightenment on 'Career Perspective Development'. The Highlights of the Presentation were Attitude and character, Career development and Skills inventory exercise. Mr.Sharath, Student Coordinator of Department Association Activities (VISTA), gave a short description about VISTA association. Importance of placement, awareness, experience and tips were convened by 5th semester students, Mr. V. Monohar, Ms. Priya Paul and Mr. Lalatendu. A technical presentations were given on Internet of Things (IoT), by Mr. Avinash & Mr. Sudhanshu, 5th semester, 'Mobile Technology' by Ms. Prathibha and Mr. Purushotham, 3rd semester. 'Brain Machine Interface' by Mr. Arvind Pandey, 5th semester, Research opportunities by Nadeem Akram, 3rd semester. After the lunch break, there was a real demo and presentation on 'App development with Android' by Mr. Sunil S K & Mr. Mansoor, 5th semester followed by 'LINUX' given by Mr. Deepak, 5th semester. Interactive games were organized for the fresher by Ms. Nidhi and Team from 3rd semester, Ms. Sandhya and team and Gopi Krishna from 5th semester. Finally, Prof. A.P. Nirmala, Faculty Coordinator, Bridge course 2016, congratulated the winners of various events organized during interactive session for juniors. She thanked the Management, Principal, Head of the department and faculty members for their guidance and support. She also thanked the senior students for their efforts and active participation for the successful conduction of the Bridge course program.

A P Nirmala,
Senior Asst. Professor MCA

Industrial Visit by BT to IBAB

Department of Biotechnology conducted an industrial visit to IBAB (Institute of Bioinformatics and Applied Biotechnology, set up by the Department of IT, BT and S&T, Govt of Karnataka. and BBC (Bangalore Bioinnovation Centre) on 15th Sept, 2016. We were received by Dr Kshithiz Acharya at IBAB. We were then taken to dry and wet labs, there they are equipped with laminar flow hoods, autoclaves, microscopes, incubators, shakers, cold room, high- and low-speed refrigerated centrifuges, microfuges, regular electrophoresis, basic FPLC, 2D electrophoresis systems, ultra-pure-water-purification-system,PCR. Then we headed towards BBC (The Bangalore Bioinnovation Centre (BBC), a centre for nurturing and promoting start ups in Life Sciences, It has almost all the equipments required for a biolab like PCR, cloning, western blotting, SDS-PAGE analysis, LCMS, CCD, Crystallography, chromatography and so on. The educational trip enriched the minds of the students

Kruthi A Reddy (1NH14BT023)
V Sem BE BT

One Day Workshop in “Hands on Experience on Salesforce.com”



The Department of MCA organized One Day Workshop on “Hands on Experience on Salesforce.com” on October 22, 2016. The main focus of the workshop was to provide working experience on Salesforce.com. Our Alumni, Mr. Chandan Panigrahy, Programmer Analyst from Cedex Software Pvt. Ltd., has conducted the session. He is a certified Salesforce.com Developer. Faculty Co-ordinator, Mrs. A.P.Nirmala, Sr. Asst. Professor, has welcomed the Resource Person, Mr. Chandan and highlighted the importance of Salesforce.com, a platform for creating and deploying next-generation cloud apps. Mr. Chandan began the session by focusing on basic concepts of cloud computing and Customer Relationship Management (CRM). Salesforce is a company that provides world’s most secure CRM services to its customers. It also provides Web services like any other providers. It works with its own language developed Apex which is similar to java for frontend. And for backend it uses SOQL which stands for Salesforce object Query Language In which tables in database are considered as objects. Mr. Chandan has given a glimpse on how to create an account in Salesforce.com before getting inside the platform. He has demonstrated the steps involved in creating the object in the development of an application under this platform. Finally, he has shown the projects developed under the platform which has motivated the students to develop the project on their own using this environment. The workshop ended with interactive session where the students have asked question on how to change the attributes while creating an object in an application. Mrs. S. P. Sreeja has presented a memento as a token of appreciation to Mr. Chandan. Mr. A.P.Nrmala, Faculty Co-ordinator has given a Vote of Thanks. The students of our Department have benefited from the workshop on how to develop the projects in Salesforce.com

A P Nirmala, Senior Asst. Professor MCA

Technical Quiz Contest– September 2016



The technical quiz contest was organized in the department of ECE on 24th September, 2016. There was good participation of the students from 3rd, 5th and 7th semesters. A preliminary round of written test was conducted and 5 teams, each of 3 members were

retained. Three rounds viz, logo-quiz, technical questions round and rapid-fire round were conducted. The winning team consisting of Sachin R, Harish P and Rohit Prasad were from 5th semester.

Co-ordinators:

ParulWadhwa, Shachi P, Karthik C V

Quantitative Aptitude #9

1. Find the greatest number that will divide 43, 91 and 183 so as to leave the same remainder in each case.

- A. 4
B. 7
C. 9
D. 13

Answer: Option A

Explanation:

Required number = H.C.F. of (91 - 43), (183 - 91) and (183 - 43)
= H.C.F. of 48, 92 and 140 = 4.

2. The H.C.F. of two numbers is 23 and the other two factors of their L.C.M. are 13 and 14. The larger of the two numbers is:

- A. 276
B. 299
C. 322
D. 345

Answer: Option C

Explanation:

Clearly, the numbers are (23 x 13) and (23 x 14).

∴ Larger number = (23 x 14) = 322.

3. Six bells commence tolling together and toll at intervals of 2, 4, 6, 8, 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together?

- A. 4
B. 10
C. 15
D. 16

Answer: Option D

Explanation:

L.C.M. of 2, 4, 6, 8, 10, 12 is 120.

So, the bells will toll together after every 120 seconds (2 minutes).

In 30 minutes, they will toll together $\frac{30}{2} + 1 = 16$ times.

4. Let N be the greatest number that will divide 1305, 4665 and 6905, leaving the same remainder in each case. Then sum of the digits in N is:

- A. 4
B. 5
C. 6
D. 8

Answer: Option A

Explanation:

N = H.C.F. of (4665 - 1305), (6905 - 4665) and (6905 - 1305)

= H.C.F. of 3360, 2240 and 5600 = 1120.

Sum of digits in N = (1 + 1 + 2 + 0) = 4

5. The greatest number of four digits which is divisible by 15, 25, 40 and 75 is:

- A. 9000
B. 9400
C. 9600
D. 9800

Answer: Option C

Explanation:

Greatest number of 4-digits is 9999.

L.C.M. of 15, 25, 40 and 75 is 600.

On dividing 9999 by 600, the remainder is 399.

∴ Required number (9999 - 399) = 9600.

6. The product of two numbers is 4107. If the H.C.F. of these numbers is 37, then the greater number is:

- A. 101
B. 107
C. 111
D. 185

Answer: Option C

Explanation:

Let the numbers be 37a and 37b.

Then, 37a x 37b = 4107

⇒ ab = 3.

Now, co-primes with product 3 are (1, 3).

So, the required numbers are (37 x 1, 37 x 3) i.e., (37, 111).

∴ Greater number = 111.

7. Three numbers are in the ratio of 3 : 4 : 5 and their L.C.M. is 2400. Their H.C.F. is:

- A. 40
B. 80
C. 120
D. 200

Answer: Option A

Explanation:

Let the numbers be 3x, 4x and 5x.

Then, their L.C.M. = 60x.

So, 60x = 2400 or x = 40.

∴ The numbers are (3 x 40), (4 x 40) and (5 x 40).

Hence, required H.C.F. = 40.

8. The G.C.D. of 1.08, 0.36 and 0.9 is:

- A. 0.03
B. 0.9
C. 0.18
D. 0.108

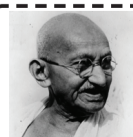
Answer: Option C

Explanation:

Given numbers are 1.08, 0.36 and 0.90. H.C.F. of 108, 36 and 90 is 18,

∴ H.C.F. of given numbers = 0.18.

Dr. R. Chinnaiyan, Professor /MCA-NHCE



“Quote Hanger”

“Strength does not come from physical capacity.
It comes from an indomitable will”

Mohandas Karamchand Gandhi

Guest Lecture on “Materials for Special Applications & Modern Techniques for Material Science in Electrical Engineering”



An Expert Guest Lecture on “Materials for Special Applications & Modern Techniques for Material Science in Electrical Engineering” by Dr.K.Santhy, Head, Material Science Engineering, CARE Group of Institutions, Trichy on 21.10.2016 and 22.10.2016. Organised and Coordinated by Prof.S.Sujitha, EEE Department for the III Semester Students to gain knowledge in the modern technologies, Materials used and testing methods used in Electrical Equipments and evaluate appropriate materials according to desired specifications.

INDUSTRIAL FIELD TRIP-2016 Indo-American hybrid seeds Pvt Limited



Department of Biotechnology conducted an industrial field trip to ‘Indo-American hybrid seeds Pvt Limited’ on 16.9.2016. On reaching the respected premises we were escorted by Mr. Jaichandran, a Public Relation Officer beyond being a scientist. It was enlightened that the company was established in 1965 by

Dr. Manmohan with vision to develop hybrid seeds in India. The company claimed that it is first to introduce the concept of green house in India and it is the first company to release hybrid seeds in the Solanaceae family such as tomatoes and capsicum in 1973, named Karnataka and the later Bharat. It has the largest genetic engineering lab in South East Asia and is the first company to release hybrids in aromatic rice varieties. After an enriching talk from Mr. Jaichandran we walked through some of their garden facilities which also encouraged some of our students to purchase a few garden plants. Overall, it was an excellent opportunity to learn about the plant hybridization and its commercial applications. It also gave an idea of some internship offered by the company which might be useful for our future research purposes.

N. Andrea Stephanie (1NH15BT032)

Ramyashree. S (1NHBT046)

Pavithra. E (1NH15BT37) and Namratha. H (1NH15BT033)

III Sem BE BT, NHCE



Open Forum

Learn from yesterday, live for today, hope for tomorrow. The important thing is not to stop questioning.

Albert Einstein

WORLD OZONE DAY-2016



World Ozone Day has been celebrated since 1994 and was established by ‘United Nations General Assembly.’ The day (September 16) is mainly intended to spread awareness of the depletion of ozone layer and search for solutions to prevent it. The theme for the year 2016 was- Ozone and Climate: Restored by a World united. In conjunction with this, Department of Biotechnology annually organizes Ozone day events. This year it was held on 17th September, 2016 and NHCE students were invited to participate in Bookmark making, Poster making and Card making competitions. Active students’ participation for was noted in form of their creative expressions through posters, cards and bookmarks carrying informative messages on ozone depletion. The event concluded with a lot of positive note and information. The winners for the above activities were awarded with appreciation letters and Tulsi saplings. UN Secretary-General’s message as given on September 16, 2016: ‘On the account of world ozone day, let us remember how much has already been accomplished, and commit to do more to protect our atmosphere. By working together, we can build a safer, healthier, more prosperous and resilient world for all people while protecting our planet, our only home.

Ramyasree (1NH15BT46) and Andrea Stephanie (1NH15BT32)
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