



स्वामी श्रद्धानन्द
कुलपिता

A MONTHLY NEWS LETTER



नभग
Flight to Success
NABHAG

FACULTY OF ENGINEERING AND TECHNOLOGY
GURUKULA KANGRI VISHWAVIDYALAYA, HARIDWAR

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IN THIS ISSUE

Recent Placements

Faculty News

From Vedas and Archives

FET at Sports

Tips and Tricks : Internet Explorer

Students Corner

FLASH NEWS

RECENT PLACEMENTS

TCS, HCL and PATNI COMPUTERS



Abhay Pali Tripathi



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Atul khandwal



Ayush Gupta



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Ankit Gupta



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rawochan kasonwoshi



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Vinay Tyagi



Vishal Goel

Editorial

The year 2011 started with good News for FET. 60 FET students got selection in the placement drive by TCS (30), PATNI computers (14), and HCL (16) this month. Placement Officer Mr. Mayank Agarwal and the selected students deserve congratulations.

I attended and coordinated the Chemical Sciences section of 98th Indian Science Congress held at Chennai in the capacity of sectional recorder/ secretary. The most important news was that the Congress was inaugurated on Jan. 3, 2011 by the Honourable Prime Minister of India, Dr. Manmohan Singh and attended by about 10000 delegates and dignitaries (including Honourable Minister of Human Resources Development, Sh. Kapil Sibal and six Noble laureates). Dr. Manmohan Singh, the Honourable Prime Minister of India and a leading International Economist, was elected as General President for the 100th session of Indian Science Congress to be held in the year 2013.

The construction of the building for new workshop of Mechanical Engineering Department was started this month. The new FET Canteen building is nearing completion and soon it is expected to be handed over for use. New Machines have been ordered for mechanical engineering department. The semester classes started this month.

The Secretary of Uttarakhand Public Service Commission Sh. Kunwar Singh, communicated that the typing examination of UPSC held in October, 2010 was a successfully organised event and therefore, once again, the Commission proposed for conduction of Personnel Secretary (Uttarakhand Secretariat/PSC) Computer typing examination for about 7000 candidates by FET. This was clear expression of faith in the infrastructure and management of FET. This examination was conducted successfully during January 12-18, 2011.

We are particularly thankful to Dr. Sunil Panwar, Suyash Bhardwaj and their team for timely publication of issues of Nabhag. Dr. Dharmendra Baliyan organised intra-faculty sports championships for teaching and non-teaching staff. Sports Kits were distributed to the students.

A Prarthna Sabha was organised on Martyrs' day to pay homage to the Father of the Nation, Mahatma Gandhi. Today, when our country is the victim of corruption, selfishness, indiscipline and lack of good leadership, we miss Gandhi a lot. RAAH DEKHA KAREGA SADIYON TAK, CHHOD JAYENGE YE JAHAN TANHA....

Prof. R. D. Kaushik
Chief Editor

Martyr's Day Prarthana Sabha

The Martyr's day is celebrated on 30th January every year in order to pay homage to those, who laid down their lives in the freedom struggle of our country. It is on this day, we lost our Bapu, the Mahatma Gandhi in 1948.

The day was celebrated at the hostel of faculty of Engineering and Technology with the same fervor in the presence of Hon'ble Vice-Chancellor Prof Swatantra Kumar. Two minute silence was observed to express gratitude towards Gandhi ji and all freedom fighters. The 'Ram dhun' was sung by all the students. Speaking on the occasion, Prof Swatantra Kumar recalled the old golden days when Gandhi ji visited the Gurukula and his interaction with Swami Shradhanand. Prof A K Chopra, Registrar spoke about the contributions of Gandhi ji in the development of the country. Prof R D Kaushik, Dean, also highlighted the philosophy of Gandhi ji as 'Gandhigiri' and its significance in the present era. Dr M M Tiwari, Dr M S Aswal, Mr Vipul Sharma, Mr Tanuj Garg, Mr Jyotirmoy Dutta were present on this occasion. The program was convened by Dr Dharmendra Baliyan.



Prof. R. D. Kaushik addressing the Prarthana Sabha



Prof. Swatantra Kumar, VC, GKV, addressing the Prarthana Sabha



FET Faculty Members with Hon'ble Vice Chancellor

FACULTY NEWS

- Computer typing examination for about 7000 candidates appearing for the post of Personnel Secretary (Uttarakhand Secretariat/ Uttarakhand Public Service Commission) was organised by FET from 12 – 18, Jan. 2011 on a proposal by Uttarakhand Public Service Commission.
- Regular Classes of B.Tech even Semester started from 19 Jan. 2011.
- The Dean, FET, Prof. Kaushik acted as Recorder/ Secretary of Chemical Sciences Section at 98th Conference of Indian Science Congress held at S. R. M. University, Kattankulathur, Kanchipuram, Chennai from Jan. 3-7, 2011. His research Students presented 04 papers at this conference.
- In recent Placements sixty of FET students got placed in TCS, HCL and Patni Computers. More companies are going to visit in next month.
- Intra-faculty Badminton Championship for teachers of FET was Inaugurated by the Secretary, Uttarakhand Public Service Commission, Sh. Kunwar Singh, PCS. The function was attended by the Controller (Examination), Uttarakhand Public Service Commission, Sh. M. S. Kundra, S.D.M. and Nodal Officer, Sh. D. M. Yadav, Dr. Naresh Chaudhary, Associate Professor, Rishikul Ayurvedic Govt. College and others, Award were presented by hon'ble Vice Chancellor.
- On Martyrs' day (30th Jan., 2011), a Prarthna Sabha was organized in the hostel, to aware the students about the importance of the day.
- Faculty members of FET participated in the oath ceremony on Voters Day, 25 Jan. 2011. This event was organized in the new seminar hall of FET. The Dean FET conducted the ceremony.
- Construction of the building for new workshop of Mechanical Engineering Department has started in this month.
- NCC Cadets took part in the Republic Day Parade on 26 Jan. 2011.



Invigilators at the PSC Examination Center



Prof R. D. Kaushik receiving a memento at 98th Indian Science Congress



Prof R. D. Kaushik at Chemical Sciences section of 98th Indian Science Congress



Faculty Members taking oath on jan 25th, Voter's Day



HCL Campus Drive : selected students with HR representatives

From Vedas

अग्नियों से उपकार और सुख



Dr. Satyadev Nigmalankar
Head, Vedic Shodh Sansthan

गन्धर्वस्त्वा विश्वावसुः परिदधातु विश्वस्यारिष्ट्यै यजमानस्य परिधिरस्यग्निरिडऽईडितः।

इन्द्रस्य बाहुरसि दक्षिणो विश्वस्यारिष्ट्यै यजमानस्य परिधिरस्यग्निरिडऽईडितः।

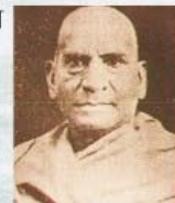
मित्रावरुणौ त्वोत्तरतः परिधत्तां ध्रुवेण धर्मणा विश्वस्यारिष्ट्यै यजमानस्य परिधिरस्यग्निरिडऽईडितः॥ यजु० २/३॥

यह सूर्यरूपी अग्नि संसार को बसाने वाली, सबको धारण करने वाली है। यह प्रत्यक्ष भौतिक अग्नि दुःख का नाश करने वाली, वायु को शुद्ध करने वाली और यथोचित वर्षा को देने वाली है। यह विद्युत् रूपी अग्नि शिल्पविद्या के द्वारा यन्त्रादिकों से सिद्ध होकर सुख देने वाली है। इन अग्नियों द्वारा संसार का उपकार और सुख में वृद्धि सम्भव है।

From Archives



कुम्भ की यात्रा मेरी हरद्वार की दूसरी यात्रा थी। सन् 1915 के मई महीने की 25 तारीख के दिन सत्याग्रह-आश्रम की स्थापना हुई। श्रद्धानन्दजी की इच्छा थी कि मैं हरद्वार में बसूँ।



(सत्य के प्रयोग – महात्मा गांधी की आत्मकथा)

My experiments with truth- Autobiography of "Mahatma Gandhi"

Concept of Atom in Vedic Literature

1. Dalton put forward his famous atomic theory in 1803. It said "Atom is the ultimate indivisible particle of matter which takes part in chemical reactions".

Maharishi Kanad- An ancient Indian Scientist wrote a book "Vaisheshika Darshan" in 6th B.C. (i.e. about 2500 years before Dalton's theory). In this book he gave his atomic theory. According to it "Parmanu (i.e. atom of today) is the ultimate indivisible particle of matter which takes part in the chemical reactions as well as in physical processes". He also discussed the Classification of atoms, Dimensions of atom, Law of causation, Planetary model of the atom, different types of mechanisms for Physical and Chemical processes and Formation of molecules e.g. Dvyanuk (Diatomic molecule), Trayanuk (Triatomic molecule), Tetranyuk (Tetra-atomic molecule) etc. using the terms and symbols not known today.

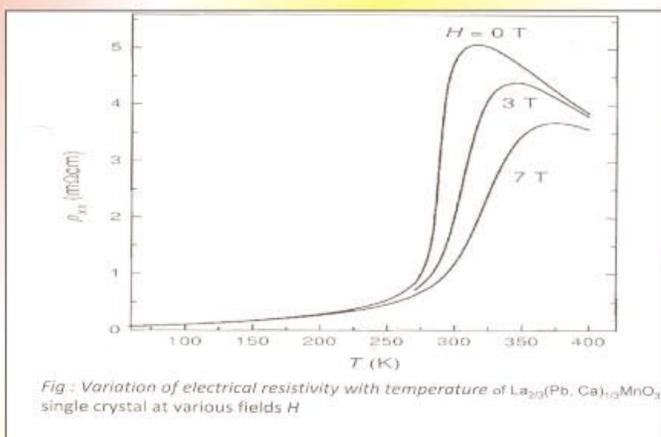
2. J. J. Thomson proposed the Water-Melon model of atom which suggests "Electrons are embedded in the positive atmosphere of protons just like the seeds in the water melon". Water melon is spherical and not circular. Atom is considered to be spherical today – a point of the Thomson's model which is still valid. If we go through the ancient Vedic Literature, the atom was stated to be like a PARIMANDAL (i.e. some thing spherical which is placed around something at centre), which is much similar to the modern atomic concept.

Prof. R. D. Kaushik

Dean, FET

Colossal Magneto-Resistance

Colossal magneto resistance (C.M.R.) is a property of some materials, mostly manganese based perovskite oxides, that enables them to dramatically change their electrical resistance in the presence of magnetic field. The magneto resistance of conventional materials enables changes in resistance of upto 5% but materials featuring C.M.R. may demonstrate resistance changes by order of magnitude.



Since the discovery of C.M.R. effect in perovskite manganites, it has considerable renewed interests in these long known materials with an eye towards both an understanding of the C.M.R. and related properties and potential applications in magnetic information store and low field magnetic sensors besides the C.M.R. effect, these materials also exhibit intriguing physical properties such as insulators-metals and/or structured transition induced by applied magnetic field or photo radiation, charge ordering, orbital ordering and phase separation etc. The full understanding of these properties will deputedly stimulates the progress of today Condensed Matter Physics.

Dr. Sunil Panwar

Department of Physics

FET AT SPORTS

BADMINTON CHAMPIONSHIP

The Intra Faculty badminton championship for teachers was successfully organized in the FET. Mr. Kunwar Singh, secretary Uttarakhand Public Service Commission inaugurated the championship by playing the inaugural match. 16 teachers took part in the knock out type championship. A total of 15 matches were played from which the first semi-final match was held between Prof. R.D. Kaushik and Mr. Praveen Pandey. Mr. Praveen Pandey won this match and in the other semi-final held between Mr. Nitin Johri and Mr. Shashank, Mr. Nitin Johri was the winner. Final match was held between Mr. Praveen Pandey and Mr. Nitin Johri. In this finale Mr. Nitin Johri won the round 21-17 & 21-15 and grabbed the trophy. The event was organized and coordinated by Dr. Dharmendra Baliyan.



Mr. Nitin Johri taking the winners Trophy



Group photograph at Badminton Championship

VOLLEYBALL CHAMPIONSHIP

Intra- faculty volleyball championship was organized on Jan. 26, 2011. The final match was played between the teams of EEE III year and ECE III year. On the basis of best of five, EEE III year team grabbed the trophy with a score of 3-2. The prizes were given by the Vice Chancellor Prof. Swantantra Kumar, Prof. R.D. Kaushik, Dean FET thanked all the gathering and Dr. Dharmendra Baliyan coordinated the event.



Final Match of Volleyball



Winning team with Vice Chancellor, GKV

30/1/2011 5:04pm

Green Computing

Green computing is the environmentally responsible use of computers and related resources. Such practices include the implementation of energy-efficient central processing units (CPUs), servers and peripherals as well as reduced resource consumption and proper disposal of electronic waste (e-waste).

According to a survey, 3% electricity is being consumed by computers only in USA. There are around 40 crore computers in all over the world. A single computer consumes 125 Wh of electricity on an average basis and remains active for five hours per day. This large wastage of electricity further results in more consumption of fuel resources and thermal pollution. The Plastic used in some of these computer media is not bio-degradable, which causes the problem of e-waste.

Computer technology use accounts for 2% of anthropogenic CO₂. The Manufacturing process of some of the computers use chlorofluoro carbons which is responsible for harming the Ozone layer. The other harmful materials used in computer manufacturing are Lead, Brominated Flame Retardants(BFR), mercury and PVCs.

A PC and monitor causes both high and low frequency electromagnetic radiations. Working long hours in front of a PC for electro sensitive people could mean sleeping disorders, allergies, hair loss, irritation and loss of appetite.

The Green computing addresses initiatives and strategies that reduce the environmental footprint of technology and produce cost savings in energy use.

Tips for Green computing

- ★ Set the power options on your PC to switch to sleep mode when you are not working on your PC. When you are going away for few minutes from your PC, set it to the stand-by mode and turn off the monitor.
- ★ Use Flat Panel Monitors (LCD or TFT) rather than CRT monitors.
- ★ Use notebook computers rather than desktop computers whenever possible.
- ★ Enable the duplex printing option. Try to use recycled ink and toner cartridges.
- ★ Minimize the use of paper and properly recycle waste paper.
- ★ Dispose off e-waste according to standard rules.
- ★ Set up Green Teams in your organization.

Dr M S Aswal

In-charge, Computer Centre

TIPS AND TRICKS : EXPLORING THE INTERNET

VIEWING AND EXPLORING WEB PAGES

To do this

Toggle between full-screen and regular views	F11
Move forward and back through the items	TAB or SHIFT+TAB
Start Caret Browsing	F7
Go to your home page	ALT+HOME
Display a shortcut menu for a link	SHIFT+F10
Move forward through frames	CTRL+TAB or F6
Find on this page	CTRL+F
Refresh the current webpage	F5
Stop downloading a page	ESC
Open a new window	CTRL+N
Open a new InPrivate Browsing window	CTRL+SHIFT+P
Duplicate tab (open current tab in a new tab)	CTRL+K

WORKING WITH TABS

Open links in a new tab in the background	CTRL+click
Open a new tab in the foreground	CTRL+T
Switch between tabs	CTRL+TAB
Close current tab (or the current window)	CTRL+W
Switch to the last tab	CTRL+9
Close other tabs	CTRL+ALT+F4
Toggle Quick Tabs (thumbnail view) on or off	CTRL+Q

USING SEARCH

Go to the search box	CTRL+E
Open your search query in a new tab	ALT+ENTER

USING THE ADDRESS BAR

Select the text in the Address bar	ALT+D
Display a list of addresses you've typed	F4
Add "www." and ".com" to the text in the Address bar	CTRL+ENTER

WORKING WITH FEED, HISTORY AND FAVOURITES

Delete browsing history	CTRL+SHIFT+DEL
Open Favorites or display your history	CTRL+H
Display all feeds (when in feed view)	ALT+I

EDITING

Copy the selected items to the Clipboard	CTRL+C
Insert the contents of the clipboard at the selected location	CTRL+V
Select all items on the current webpage	CTRL+A
Open Internet Explorer Developer Tools	F12

<http://support.microsoft.com>, <http://faq.programmerworld.net>

Suyash Bhardwaj
Dept of Computer Science

MEMORIES

They make you laugh, they make you cry,
They come with you, when you say goodbye,
Such is the bond you share with memories
You miss them alone and with whom you shy.

Memories never leave you alone,
They contain the emotions never shown,
Make you think of the times in past,
And keep the moments you want to own,

Memories get stored in heart,
Soon they become your life's part,
You can't avoid recalling them,
Such are the feelings they impart.

You think of them if they are sweet,
Be they bitter, you still meet,
They make you happy and sad as well,
Haunt you in all corners and every street.

Memories are the gift from the past,
And move with life, be however fast,
They are the ones to be cherished,
As till eternity with you the last.

Memories from loved ones hurt you more,
As they are the ones you can't ignore,
You can not stand their being away,
When their love is brought to the fore.

The role they play strange appears,
Bring to you both smiles and fears,
Make you cry when you laughed,
And make you laugh when you shed tears.

Memories are souvenirs you always keep,
They support you while alone you weep,
They are your shadow you cast within,
Carrying the feeling strong and deep.

Sanjeev Lambha
Dept. of Mechanical Engg.

STRING THEORY : AN INTRODUCTION

It's an idea of unified theory which was developed in 1970's. Modern physics has two basic scientific laws: Quantum Physics and General Relativity. These two scientific laws represent radically different fields of study. Quantum physics studies the very smallest objects in nature, while relativity tends to study nature on the scale of planets, galaxies, and the universe as a whole. Theories that attempt to unify the two theories are the theories of quantum gravity, and the most promising of all such theories is string theory.

According to string theory, an elementary particle is not a point but made of one dimensional vibrating string. The string is not 'made up of anything', rather it is basic and other things are made up of it. These "fundamental strings" has many different harmonics or forms of vibration. Different harmonics correspond to different elementary particles. If string theory proves correct, all elementary particles — electrons, photons, neutrinos, quarks, and the rest owe their existence to subtle differences in the vibrations of strings.

String theory attempts to unify the four forces in the universe -electromagnetic force, the strong nuclear force, the weak nuclear force, and gravity-together into one unified theory. In our universe, these fundamental forces appear as four different phenomena, but string theorists believe that in the early universe (when there were incredibly high energy levels) these forces are all described by strings interacting with each other.

The String theory doesn't have any experimental proof yet, but physicist are hopeful the LHC at CERN might help them to find supersymmetry in nature and give experimental support to string theory. If we finally able to confirm string theory then we will be able to understand what was the Big Bang all about, and how space and time began?

Gyanish Gaurav
VIII sem, EEE

Message to FETians



Gokul Kumar
Campus Reporter
Hindustan Times
General Secretary
G.K.V. Student Welfare
Association

NABHAG has done a fine job of letting students of FET know what has been happening in the University. I would like to share that recently I accepted a position of campus reporter for Hindustan Times. I took this position to let whole India know what a great Institution we are and what makes us different from others. I think it's our duty to convey our values and traditions which we learnt in Gurukul. We can show how we can have a symbiotic relationship between traditions and a modern outlook. So my friends, wherever we go, whatever we do let us try to spread what we learnt being part of Gurukul. Finally we would like to congratulate all our friends who have been selected in campus interview by different companies and those who are not selected yet, should not forget the words of a wise man, "Take proud in where you got and have faith in where you will go".

Have faith on yourself and keep trying . You can't succeed if you won't try.

Gokul Kumar
VIII Sem, EEE

Run turbo C compiler (popular as blue screen) in Windows 7 64-bit version

Now a days we have a common problem when we want to use turbo c compiler in windows 7. It doesn't work in full screen.

So here is a solution which you can try.

1. First of all download Turboc3 into a folder named as turbo in c drive

2. Download dosbox, install and run it. Now do as following in dosbox window ---

(FIRST line) type "mount d c:\turbo"

(SECOND line) type "d:"

(THIRD line) type "cd tc"

(FORTH line) type "cd bin"

(FIFTH line) type "tc"

3. Go to all programs to dosbox to option to edit configuration Click on that then an notepad will open. Type the following.

mount d c:\turbo

d:

cd tc

cd bin

tc

and save the notepad.

3. now simply run dosbox and u will see blue screen C. press alt+enter for full screen.

Kuldeep Singh Rathore
CSE, VI Sem

Try Again and Again, Never Give Up

*In the face of adversity do not loose hope
But, bear in mind never to repeat mistakes
For, they are only stepping stones on your way
And not a place for your stay.*

*So, with grit and hope move ahead to cope
Whatever that befalls and make sure your hope
Never lets you fall*

As it has been very aptly observed by some great paragramatic mind in the past, "In the presence of trouble, some people buy crutches, while other grow wings." You may fall while tackling your problems but you don't have to lie there. A problem is a chance for you to do your best..

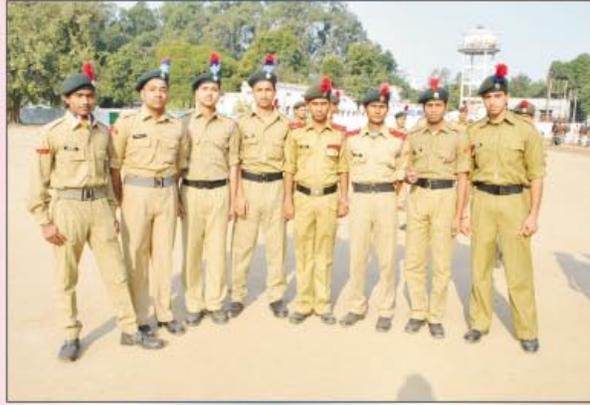
*"A gem is cleaned by polishing ,
But a man is perfected by trials."*

Hold on to your dreams and visions of tomorrow no matter what today brings with it . Failures or setbacks should never make you feel let down , instead these should make you more determined then ever before , inspire you, infuse strength into you so that your spirit is rejuvenated and you regain your composure.

Abhay Pratap Singh
IV Sem, ECE

NCC Cadets Make FET Proud

On the occasion of republic day, the cadets attended the ceremony which had the salutation to national flag and to our hon'ble Vice Chancellor Prof Swatantra Kumar. Also recently a camp was held at bhagwan pur, roorkee under commanding officer Lt. Col. S. Chattrii (Indian Army) where several program and games were held including Shooting, Volleyball and Football. The FET NCC cadets attended the Tough training camp. Shashwat gupta, Alok Nigam and Shailesh Trivedi from M.E IV sem, Prashant Priyadarshi, Neelanshu Shukla ECE IV sem and Suresh Kumar Vishwakarma from ECE VIII sem, Dhirendra Kumar from CSE IV sem, Ravindra Kumar EEE IV sem, Shubhang Vats ECE VI sem won Gold Medal of appreciation in Volleyball and Silver Medal in Football. Prashant Priyadarshi won Silver Medal for anchoring and Shashwat Gupta stood third in solo singing competition.



NEWS UPDATE

60 placements in TCS, Patni Computers and HCL

Computer Typing Examination for about 7000 candidates was held successfully in FET during 12- 18 Jan. 2011.

Intra Faculty Badminton Championship for FET Teachers organized on 18 Jan. 2011.

Intra Faculty Volleyball Championship was organized in FET on 26 Jan. 2011

A Oath taking Ceremony on Voter's Day was organized In FET on 25 Jan. 2011.

NCC cadets make FET proud by taking part in Republic Day Parade.

A Prarthana Sabha was organized in B.Tech Hostel on Martyr's day, 30 Jan. 2011.

FET AT A GLANCE

