



स्वामी श्रद्धानन्द
कुलपिता

A QUARTERLY NEWS LETTER



नभग
Flight to Success
NABHAG

FACULTY OF ENGINEERING AND TECHNOLOGY
GURUKULA KANGRI VISHWAVIDYALAYA, HARIDWAR
(Deemed to be University u/s 3 of UGC Act 1956)
"Accredited by NAAC with 'A' Grade"

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International Yoga Day, June 21, 2016



Second International Yoga Day was celebrated at the Department of Human Consciousness & Yogic Science on June 21, 2016. Faculty Members and students of FET participated on this occasion with full enthusiasm. Honorable Vice Chancellor, GKV Prof. Surendra Kumar, Registrar Prof. Rajendra Aggarwal, Prof. M. R. Verma, Prof. R. D. Kaushik and others were present. Prof. Ishwar Bhardwaj, Dean Faculty of Medical Science and Health coordinated the event.

Topper's Felicitation Program at FET



Aditya Kumar Pal CSE I	Digvijai Katyal ECE III	Abhishek Anand ME V
Abhishek Kumar ECE I	Piyush Singh EE III	Rajat Panjwani CSE VII
Mayank Singh rawat ECE I	Gulab ME III	Bala Ram ECE VII
Utkarsh Mishra EE I	Aakash Kesarwani CSE V	Siddharth Sinha. EE VII
Gopesh Gaurav ME I	Abhinav Srivastav ECE V	Tarun Varshney EE VII
Siddharth Dwivedi CSE III	Keshav Yadav EE V	Suchit Pandey ME VII

Dear readers

Even semester examinations have been conducted as per schedule and the results were also declared in time. I congratulate examination section of GKV & FET faculty members for on time result announcement. I always emphasize to follow academic calendar consistently because it helps our final year students to join their jobs and to pursue higher studies. My personal experience is that due to this our institute brand value is upgrading day by day.

My best wishes are with the FET students who have completed their B.Tech and going to start a new journey of life, where they will face new challenges. I trust that the way they got education and learning in FET, they will always be able to set new benchmarks in life.

New session will start from July 16, 2016 and new students from all over India will join FET in 1st year. I ensure that we will provide maximum facilities to our students in every possible way. I hope they will feel proud in having become a part of FET.

Prof. R. D. Kaushik
Chief Editor

From Vedas



ज्ञानियों और वैज्ञानिकों को खोज की इच्छा रखनी चाहिये

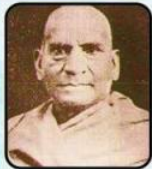
तेजोऽसि शुक्रममृतमायुष्माऽआयुर्मे पाहि।

देवस्य त्वा सवितुः प्रसवेऽश्विनोर्बाहुभ्यां पूष्णो हस्ताभ्यामाददे ॥ यजु०१२.१॥

शरीर के अन्तर्गत विद्युत् विद्यमान रहती है, जिससे शरीर की रक्षा होती है। जिस प्रकार भौतिक सूर्य से जीवन की रक्षा होती है, उसी प्रकार वायु से भी जीवन रक्षित होता है। ज्ञानवान् पुरुषों और वैज्ञानिकों को शारीरिक विद्युत् के अन्तर्गत शक्ति का आभास करते हुए खोज करनी चाहिए। भौतिक सूर्य तथा वायु के अन्तर्गत जीवन के विभिन्न तत्त्व विद्यमान हैं, इन तत्त्वों को खोजकर शरीर रक्षा के लिये प्रयोग में लाये जाने चाहिए। ज्ञानी एवं वैज्ञानिक निरन्तर प्राणियों के हित की खोज करते रहें।

प्रो०सत्यदेव निगमालंकार,
श्रद्धानन्द वैदिक शोध संस्थान,
गुंकां०वि०वि०,हरिद्वार

From Archives



हरिद्वार जैसी धार्मिक नगरी में जहाँ प्रत्येक आस्थावान हिन्दू जीवन में कम से कम एक बार गंगास्नान के पुण्य लाभ की कामना मन में संजोये आता है ऐसे में पवित्र नगरी में अपने आगमन पर गांधीजी ने कहा था "मैं हरिद्वार कुम्भ के अवसर पर महात्मा जी के दर्शन के लिये आया हूँ, मैं उनके प्रेम के लिए कृतज्ञ हूँ।"



सौजन्य से हेमन्त आत्रेय

FACULTY NEWS



Mr. Agam Goyal attended a short term course on Vision, Graphics and its Applications at IIT, Roorkee



Mr. Namit Khandaia attended Workshop and Training on 'Big Data Analytics' at IIT, Roorkee during April 01-10, 2016

FACULTY NEWS

1. Dr. Mayank Aggarwal delivered an expert talk on "Cloud Computing and IoT" during Workshop/FDP on "Microwave and Wireless Communication" at M.J.P., Rohilkhand University, Bareilly on April 01, 2016.
2. Mr. Suyash Bhardwaj, Mr. Namit Khanduja, Mr. Mukesh Chand and Mr. Vivudh attended Workshop and Training on "Big Data Analytics" sponsored by Department of Science & Technology (DST), Govt. of India and organized by IIT, Roorkee during April 01- 10, 2016
3. Vedant Singhal of CSE, III year has completed all three levels in IAssurance before April 7, 2016.
4. Dr. Mayank Aggarwal delivered five Sessions with "Hands on Experience on Cloud Computing and Cloud Sim" in a Workshop at Punjabi University, Patiala on April 11-12, 2016.
5. Students of 3rd year Electronics and Communication Department visited the Anchor Electricals Pvt. Ltd, Haridwar on April 20, 2016 under the guidance of Mr. Ashish Nainwal and Mr. Amrish
6. Department of Electronics and Communication Engineering organized an alumni interaction program in which Mr. Nikhil Sehgal, Major Indian Army, an alumnus of FET delivered a talk on Carrier in Indian Army and motivated the students to join Indian Army on April 27, 2016.
7. Dr. Mayank Aggarwal delivered an invited talk on "Cloud Computing and Bluemix" during a Workshop at COER, Roorkee on April 28, 2016.
8. Namit Khanduja has successfully completed Introduction to Big Data (2015) and Hadoop Platform and Application Framework an online non-credit course authorized by University of California, San Diego and offered through Coursera in the month of April, 2016
9. In the month of April and May Intra faculty sports were conducted under the guidance of Dr. Dharmendra Baliyan and the prize distribution ceremony was held on May 05, 2016. Hon'ble Vice Chancellor, GKV Prof. Surendra Kumar, was the chief guest along with Prof. R.D. Kaushik, Dean, FET. Mr. P.K. Mishra, Bank Manager, Punjab National Bank, Gurukul Kangri Branch, Haridwar was the dignified guest of the function.
10. In Cricket Tournament, CSE-2nd year team bagged the winner's cup, after defeating CSE-4th year. In Volleyball, ME-1st year created history by winning the Trophy for the first time by beating ECE-2nd year. In Football, EE-3rd year lifted the Winner's Trophy by defeating ME-2nd year in the finals. The winning team members were awarded with gold medals and the runner teams had to content with silvers. Dr. Dharmendra Baliyan, coordinated the program and Dr. MM Tiwari presented the vote of thanks.
11. Toppers from different Branches were felicitated by Hon'ble Vice Chancellor GKV, Prof. Surendra Kumar along with Dean FET, Prof. R. D. Kaushik on May 27, 2016
12. FET celebrated International Yoga Day on June 21, 2016 at the Department of Human Consciousness and Yogic Sciences, FMSH, GKV. All the faculty members and Students of FET attended the same.
13. Sakul garg of ME-3rd year, stood First and won Rs. 1500 cash prize in National Essay Competition organized on the eve of International Yoga Day, Theme of the essay was "Yoga for World Peace".
14. Dr. Mayank Aggarwal delivered an expert talk on "Role of Computers in Research for Ph.D Candidates" at UTU, Dehradun on June 28, 2016.
15. Sunil Kumar assistant professor department of ME, Sakul Garg, Shivram Kumar, and Sahastranshu students of ME published a paper titled "Process parameters optimizing in injection Moulding process on polypropylene" in Discovery International Journal, 2016, 52(246), 1420-1425.
16. Mr. Kapil Mittal published a paper named "Application of Fuzzy TOPSIS MADM approach in ranking & underlining the problems of plywood industry in India" in Cogent Engineering, Taylor and Francis, Vol. 3, DOI: 1155839. ISSN : 2331-1916.
17. Mr. Kapil Mittal published a paper named "Significance of Six Sigma Basics in a Manufacturing Unit: A Case Study" in Progress in Management Sciences, Vol 1, issue 3. ISSN : 2311-1860
18. Mr. Agam Goyal attended a short term course on "Vision, Graphics and their Applications" during July 4-8, 2016 organized by IIT, Roorkee.



Dept. of ECE organized a Industrial Tour for 3rd year students at Anchor Electrical Pvt. Lt. haridwaron April 20, 2016



Mr. Suyash Bhardwaj, attended Workshop and Training on "Big Data Analytics" at IIT, Roorkee during April 01- 10, 2016

Tips and Tricks for Reducing Radiation from your Phone

Our phone is with us all the time and hence its exposure to our body and brain. Cell phones emit radio-frequency (RF) energy. When you hold your cell phone next to your head or wear it on your body, you can absorb over 50% of the transmitted RF energy. While cell phones bring enormous convenience to our lives, the possible health consequences of exposure to cell phone radiation have aroused considerable public attention and scientific debate. The Specific Absorption Rate (SAR) which defines the rate at which energy is absorbed by the human body when exposed to a radio frequency electromagnetic field. You can know the SAR of your mobile phone from user's manual.

Here are some steps to reduce the Radiation from your cell phone

- 1. Check the SAR** of your device by using Code *#07#. This will show the maximum radiation you are subjected to by your device.
- 2. Use a Bluetooth/Wired headset** or speaker mode during calling. This will eventually reduce the exposure of your brain tissue to the harmful RF radiations.
- 3. Turn your phone off at night;** you might have a habit of using your cell phone as alarm by keeping it next to your head while sleeping. This will expose your body and head to the harmful radiations throughout the night even if the cell phone is in flight mode.
- 4. Avoid Body Contact,** when your phone is on, keep your distance. Even when you aren't making a call, the phone is emitting constant radiation to connect to the nearest antenna. Avoid "wearing" your phone, so keep it out of your pockets and don't clip it onto your belt.
- 5. Use a Shield Case,** with the unique design; you place the shielded side of the case against your body. This allows the phone to maintain reception but protects your body from the phone's harmful RFs
- 6. Keep children and pregnant ladies away** from the direct exposure, kids have thinner skulls and bones which makes them absorb twice the amount of radiation as a grown-up. EMFs can penetrate deeper in their body causing cancer.
- 7. Text More,** whenever possible, text rather than talk. When texting your phone will be likely held in your hand and further from your body. This distance creates a much larger buffer between you and the powerful near field radiation from the phone.
- 8. Shorter Calls,** Limit the length of your cell phone conversations. This one is simple math. Less time talking with a phone against your head equals less radiation going into your body. Use a corded landline phone if available.
- 9. Switch Sides of Head When Talking,** Switch sides regularly during a cell phone call to reduce radiation exposure to just one side of your head. Most of us use the same hand all the time to hold the phone when we talk. Try to switch to your other hand and it will help so that one side of your head doesn't always get all the radiation.
- 10. Avoid Use When Low Signal,** Avoid using your cell phone when the signal is weak or when moving at high speed, such as in a car or train. These scenarios cause mobile phones to increase their transmitting power in an attempt to connect to the nearest cell tower. You get more radiation and your battery drains faster under these conditions.
- 11. Wait for Call Connection,** when making a call, wait for the call to connect before placing the phone next to the ear. The phone emits the most intense radiation during the initial connection, and then lowers its power once a connection is established. A couple extra seconds will go a long ways here.
- 12. Use Airplane Mode,** Turn your cell phone off or put it in airplane mode when not in use. If you must leave your cell phone on at night, keep your cell phone away from your head and body while you are sleeping.

Mr. Suyash Bhardwaj
Dept. of CSE, FET, GKV

Eerie glow: Medical staff use a Geiger counter to screen a woman for radiation exposure in Hitachi City after she was evacuated from the Fukushima nuclear plant exclusion zone. The woman tested negative

RADIATION EFFECTS

Measurements in millisieverts (mSv). Exposure is cumulative.

Potentially fatal radiation sickness. Much higher risk of cancer later in life.

10,000 mSv: Fatal within days.

5,000 mSv: Would kill half of those exposed within one month.

2,000 mSv: Acute radiation sickness.

No immediate symptoms. Increased risk of serious illness later in life.

1,000 mSv: 5% higher chance of cancer.

400 mSv: Highest hourly radiation recorded at Fukushima. Four hour exposure would cause radiation sickness.

100 mSv: Level at which higher risk of cancer is first noticeable

No symptoms. No detectable increased risk of cancer.

20 mSv: Yearly limit for nuclear workers.

10 mSv: Average dose from a full body CT scan

9 mSv: Yearly dose for airline crews.

3 mSv: Single mammogram

2 mSv: Average yearly background radiation dose in UK

0.1 mSv: Single chest x-ray



EYES High doses can trigger cataracts months later.

THYROID Hormone glands vulnerable to cancer. Radioactive iodine builds up in thyroid. Children most at risk.

LUNGS Vulnerable to DNA damage when radioactive material is breathed in.

STOMACH Vulnerable if radioactive material is swallowed.

REPRODUCTIVE ORGANS High doses can cause sterility.

SKIN High doses cause redness and burning.

BONE MARROW Produces red and white blood cells. Radiation can lead to leukaemia and other immune system diseases.

Alumni Interaction Program in Department of ECE



Department of Electronics and Communication Engineering organized an alumni interaction program in which Mr. Nikhil Sehgal, Major Indian Army, and an alumnus of FET delivered a talk on Career in Indian Army and motivated the students to join Indian Army on 27 April 2016.

Indigenous Development : Make in INDIA

India is an emerging economy. Its economic growth lies on the growth of three sectors, Agriculture, Manufacturing and Science and Technology. When it comes to growth prospects, a special attention is given to Science & Technology and Manufacturing sector on account of its huge employment generation potential. The Make in India program includes major new initiatives designed to facilitate investment, technovation, national development and build best-in-class manufacturing infrastructure. It orients the economy to look inward and strength fundamentals in order to achieve high growth. The policy is the first of its kind for the manufacturing sector as it addresses Science, Technology, Infrastructure and Skill Development. The policy aims at increasing the manufacturing sector growth by using the resources and developing them in India. India is a country which has undergone a significant amount of transition. Since Independence, the development of heavy industries are given due importance due to increase in new Technologies. It is realised that the development of the manufacturing sector would make India self-reliant and generate employment as well. Therefore, the science and technology is a key to boost Indigenous Development in India leading to boost in India's manufacturing sector.

OBJECTIVES :



SAKUL GARG
Student, B.Tech- M.E. (3rd yr.)

Yoga at FET



Students of FET practicing yoga under the guidance of Dr. Dhanendra Bahyan.

Sports Prize Distribution

In the month of April and May Intra faculty sports were conducted under the guidance of Dr. Dharmendra Baliyan and the prize distribution ceremony was held on May 05, 2016. Hon'ble Vice Chancellor, GKV Prof. Surendra Kumar, was the chief guest along with Prof. R.D. Kaushik, Dean, FET. Mr. P.K. Mishra, Bank Manager, Punjab National Bank, Gurukul Kangri Branch, Haridwar was the dignified guest of the function.

In Cricket Tournament, CSE-2nd year team bagged the winner's cup, after defeating CSE-4th year. In Volleyball, ME-1st year created history by winning the Trophy for the first time by beating ECE-2nd year. In Football, EE-3rd year lifted the Winner's Trophy by defeating ME-2nd year in the finals. The winning team members were awarded with gold medals and the runner teams had to content with silvers. Dr. Dharmendra Baliyan, coordinated the program and Dr. MM Tiwari presented the vote of thanks.



Meritorious Students Felicitation



Farewell to Final Year Students of CSE, EE, ECE, and ME



Student's Gallery



Creative work by : Kaushal Sanadhya CSE VIII Sem