SRMS College of Engineering, Technology & Research, Bareilly

August, 2016

CAMPUS-ANVESHAN

EDITORIAL BOARD

E- NEWSLETTER

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Principal's Desk

The advancements in science and technologies are changing the ways by which professional competencies could be demonstrated in real working environment. The students and faculty members must work together to have a balance between teaching and learning now. Further, it requires a high degree of awareness on the latest updates in the areas of interest among all so that a proactive learning approach could be developed in an academic institution. SRMS College of Engineering, Technology and Research, Bareilly is poised to set for the best teaching-learning and research environment as per the values and quality of the prestigious institutions of SRMS Trust.

Various initiatives have been taken since the beginning of the session to help the students in the learning of technical subjects. It includes review tests and mock interview along with extensive lab & project sessions. Special emphasis is also given on various personality development modules with presentation and communication sessions. The research & project areas are also identified by the faculty members

Publication of the monthly E-newsletter "Campus-Anveshan" is a step to disseminate the happenings and related aspects to the students, alumni and stakeholders. I would like to appreciate and thank the editorial team and contributors of news and articles for various sections of this monthly newsletter.

Dr A K Srivastava
Principal

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HAPPENINGS AT THE COLLEGE

MOCK INTERVIEWS
(1st to 3rd August, 2016)

A mock placement drive named Employability Skills Assessment Test (ESAT) was conducted for Final Year students of Shri Ram Murti Smarak College of Engineering, Technology & Research from 1st to 3rd August, 2016 with the help of the experts by Central TDP Cell. The exercise was designed to simulate and give the students an insight into the real time interviews and make them aware of expectations and processes to be followed in placement drives.
It included following different rounds:

- Aptitude Test
- Email writing
- Technical Interview
- HR Interview
- Group Discussion

The Interview panel assessed the technical and communication competence of the students and gave them individual and group feedback on their performances. Students found it to be a good rehearsal for actual job interview. It was treated as a part of placement related training and continuous assessment of the students during the course.

Compiled by :
Mr Sumit Kumar Saxena
(Asst Prof & Placement Coordinator)

PLAY: "YAAD KARO KURBANI"
(13th August, 2016)

On the eve of Independence Day a drama was performed by the students of dramatics club 'EXPRIMO' of SRMSCET&R on August 13, 2016. The drama "YAAD KARO KURBANI" was enacted to portray the sacrifice (*kurbani*) of our Indian nationalists Mahatama Gandhi, Bhagat Singh and Netaji Subhash Chandra Bose. The act was to convey a strong message that the Independence Day is not a day of holiday, rather to salute the patriotism and to pay respect and honour to our freedom fighters who fought for the country's independence

Compiled by :
Ms Shubhra Dubey
B. Tech (Third Year)-EE

INDEPENDENCE DAY CELEBRATION 2016
(15th August, 2016)

The 70th Independence Day was celebrated with great enthusiasm and respect to our nation in the college on 15th August, 2016. The program commenced at 8 AM in open ground with large gathering of staffs and students. Honourable Chairman, Shri Dev Murti Sir was the Chief Guest. He was accompanied by Trust Administrator, Subhash Mehra Sir,Trust Secretary,Aditya Murti Sir,Mrs. Richa Murti Ma'am, Principal, Prof. Dr. A.K. Srivastava Sir, HODs of respective departments and faculty members. To commemorate the sovereignty of our nation, honourable Chairman Sir unfurled the tricolor flag and all in unison sang the National Anthem and expressed the joy of our freedom. The students of choir presented a group song that awakened everyone's feelings towards our Mother Land. Principal Sir motivated the students with his inspirational words. Further some patriotic solo songs were performed by 1st & 2nd year students. Respected Chairman Sir addressed the gathering and expressed his delight to see the strong foundations of SRMSCET & R in academics. At the end sweets were distributed to the students. The spirit of freedom was instilled among all with the "**Freedom in the Mind, Faith in the words, Pride in our souls and let's salute the nation on this auspicious day"**

Compiled By:
-Ms Mani Shukla
B. Tech (Third Year)-EC

HAPPENINGS AT THE COLLEGE

ORIENTATION PROGRAM
(17th August, 2016)

The 21st Orientation program of SRMS Engineering institutions was organized on August 17, 2016 for the 9th Batch of newly admitted students of SRMSCETR at Shri Ram Murti Smarak Centennial Auditorium Bareilly. After introduction by the Dean Academics (SRMSCET, Bareilly), the Chairman Shri Dev Murti Sir welcomed the students in SRMS Trust family and guided them with the vision and values. Trust Secretary Shri Aditya Murti Sir, motivated the students with his inspiring words. Member of BOD Shri D P Agarwal also guided the students for success. The program ended with the valuable words by Trust Administrator, Shri Subhash Mehra Sir and Vote of thanks by Principal Dr A K Srivastava Sir.

Compiled by:
Ms Aishwarya Agarwal
B. Tech (Third Year)-CS

SHRI KRISHNA JANMASHTAMI 2016
(25th August, 2016)

Shri Krishna Janmashtmi, the festival which marks the birth of lord Krishna, was celebrated in the Radha Mohan Temple in the SRMS campus. It was a mutual effort of students of SRMSCET & SRMSCETR. The preparation started early in the morning with students gathering together to beautify the temple premises with balloons, shlokas, lights,etc. It was aesthetically done.

Later in the evening, the function started off with recital of lord's various beautiful names by our enthusiastic students. Devotees sang devotional songs out of their faith and reverence.

At midnight, respected Chairman, Shri Dev Murti Ji was invited for the Maha-Abhishek of lord Krishna's idol.

Finally, the distribution of Prasad, fruits, sweets, panjiri and charanamrit marked the end of this grand celebration. The mantras, which continuously echoed in the temple, served as the charm of the function.

Compiled by:
Ms Shubhi Rastogi
B. Tech (Third Year)-CS

CODESENSE 2016
(20th August, 2016)

An event CODESENSE- C/C++: 2016, a competitive event for computer programming was organised on August 20, 2016 for IIIrd year student of B. Tech (SRMSCET&R & SRMSCET) in SRMSCET&R. The event comprised of two rounds. First round had objective questions on C /C++ & the second round was based on programming skills. 60 students had actively participated in the event. On the basis of the marks scored, top 20 students were allowed for the second round. The top 3 students from second round were awarded with certificate and cash prize.

ZERO PERIOD ACTIVITIES

i. An **online quiz** was organized by the Reformers Club
ii. An **event on Jumble words** was organized by Shamama Kamal and Shefali Sharma from the Elixir club
iii. A **Talk on core JAVA** was delivered by Shubhangi Bansal(CS –Final year student) from Esoteric Club .
iv. A **lecture on industrial Automation** was delivered by Riya Singh (EE –Final year student) from Technomind Club

Compiled by:
Ms Riya Singh (EE-IV Year)
President - Verve

UPCOMING EVENTS

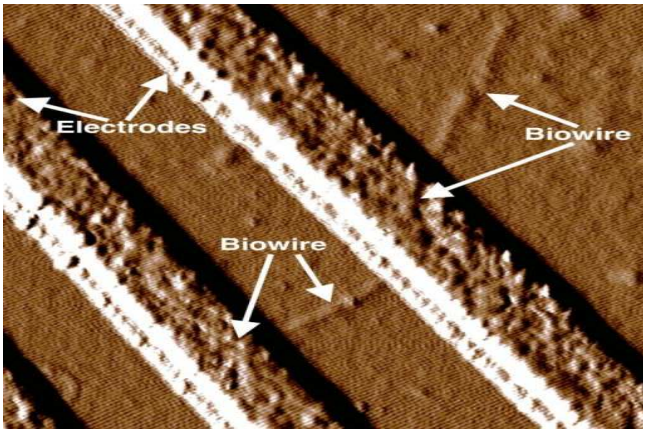
- **15th September, 2016 :** Engineer's Day & Spark the Brain Competition
- **16th September, 2016:** A workshop on Virtual Lab from IIT Delhi
- **17th September, 2016:** Vishwkarma Puja & Alumni Talk
- **24th September, 2016:** Model Presentation Competition

UPDATES IN ENGINEERING AND SCIENCE

GENETICALLY MODIFIED SOIL BACTERIA WORK AS ELECTRICAL WIRES

Source: Report of office of Naval Research, USA

Scientists have genetically modified common soil bacteria to create electrical wires that not only conduct electricity, but are thousands of times thinner than a human hair.



As electronic devices increasingly touch all facets of people's lives, there is growing appetite for technology that is smaller, faster and more mobile and powerful than ever before. Thanks to advances in nanotechnology (manipulating matter on an atomic or molecular scale), industry can manufacture materials only billionths of a meter in thickness. Scientists sponsored by the Office of Naval Research have genetically engineered a new strain of bacteria, found naturally in dirt, to create electrical wires that not only conduct electricity, but also rival the thinnest wires known to humanity. The nano-wires could have a great impact on the future force, contributing to everything from smaller electronic devices to alternative fuels.

Compiled by:
Mr Mohit Pant.
Asst Professor- EE

BREAK THROUGH IN NANO MATERIALS

Source : Journal of Nature Communication

A time of FAU researchers led by Dr. Andreas Husch has recently made a crucial break through. Chemist has succeeded in producing defect free graphene directly from graphite. With the help of additive benzonitrile, they found way of producing defect free graphene directly from solution. Their method enables the graphene which is of a higher quality than even achieved before to be cut without causing defects. It also allows specific electronic properties to be set through the numbers of charge carrier. Further, this technique is of low cost and highly efficient.

Compiled by:
Dr Ritu Singh
HOD- Basic Science

FUCHSIA: A NEW OS FROM GOOGLE

Source : Technews, Times of India and Google.com

Google is working on a new OS called Fuchsia. Fuchsia stands for "Pink + Purple = Fuchsia." Google's mysterious new Fuchsia OS is based on a completely different kernel known as Magenta. This is a microkernel, which itself is based on a different project called Little Kernel.

The intended use for Magenta was as part of an embedded system like we see on routers or set-top boxes. Magenta is designed to be lightweight, but it can scale up to be the basis for more powerful systems.

Google's Fuchsia page notes that the project is targeted at "modern phones and modern personal computers' that have fast processors and lots of Memory. Building something open from scratch gives Google much more freedom to make exactly what it needs. Many of the security exploits found in Android these days are actually faults in the Linux kernel. Google is testing Fuchsia on a variety of devices. There is also support for the Raspberry Pi 3 on the way. Google is currently using a system called Flutter for the interface and Dart as the programming language.

Thus Fuchsia is the next step for Android, Chrome OS, or both. Migrating to a new platform probably means breaking compatibility with existing software (or emulating it in some way), so this is not something to be done lightly.

Compiled by:
Ms Shikha Arya.
Asst Professor- CS

INTEGRATION OF NOVEL MATERIALS WITH SILICON CHIPS MAKES NEW 'SMART' DEVICES POSSIBLE

Source: Journal of Applied Physic, North Carolina State University

Researchers from North Carolina State University and the U.S. Army Research Office have developed a way to integrate novel functional materials onto a computer chip, allowing the creation of new smart devices and systems.

The novel functional materials are oxides, including several types of materials that, until now, could not be integrated onto silicon chips. These materials are thought to hold promise for applications including sensors, non-volatile computer memory and micro electromechanical systems, which are better known as MEMS. Specifically, the researchers developed a suite of thin films that serve as a buffer, connecting the silicon chip to the relevant novel materials. The exact combination of thin films varies, depending on which novel materials are being used.

Integrating these novel materials onto silicon chips makes many things possible, For example, this allows us to sense or collect data; to manipulate that data; and to calculate a response, all on one compact chip. This makes for faster, more efficient, lighter devices.

Another possible application is the creation of LEDs on silicon chips, to make "smart lights." Currently, LEDs are made using sapphire substrates, which aren't directly compatible with computing devices.

Compiled by:
Ms Sonali Gupta
Asst Professor- EC

MOB ILE APPLICATION DETECTS EARTHQUAKES

Source: Science Reporter

Richard Alien, Director of Seismological Laboratory, Berkeley, USA and coworkers have developed an application called “My Shake” for early detection of earthquakes. The report says that the application can combine the power of accelerometers in cell phones to enable early warning of earthquakes and accurate data regarding the onset of earthquake or Tsunami but gives sufficient time to flee from the disaster zone. They realized that the technology used in smart phones, known as accelerometers, can be used as a seismic detector.

Compiled By:
-Mr Prafull Chauhan
Asst. Professor (EE-Deptt.)

ADVANCEMENTS IN USB-C CONTROLLER BY CYPRESS SEMICONDUCTOR

Source: Cypress Semincoductor Report

Cypress Semiconductor has announced that its USB-C controller portfolio is now able to support the latest USB Power Delivery (PD) 3.0 specification enabling improved end-to-end power delivery and charging solutions for laptop and mobile devices.USB PD 3.0 provides a number of key enhancements over the current version of the spec, USB PD 2.0 improving the robustness of power sources, sinks and cables. Cypress’s EZ-PD CCG3 and CCG4 USB-C port controllers are believed to be the first solutions to support the USB PD 3.0 specification from the USB Implementers Forum (USB-IF).USB PD 3.0 provides the ability for an accessory to change modes from sourcing to sinking power quickly, preventing data corruption during a sudden disconnect of its power source. This feature, called fast role swap, enables charge-through dongles and docks.USB PD 3.0 also introduces an extended messaging capability that enables faster USB PD performance for firmware updates and offers a more-efficient mechanism to exchange security certificates.

Compiled by:
Ms Neha Thakur
Asst. Prof- EC

CREATIVE & INNOVATIVE

'AWAKE 'O' YOUTH'

Where is the world going to?
Where are the youth leading to?
Oh! Youth, what are your plans?
In this society where do you stand?
Look around yourself and see,
Voices calling you to be free.
To do what you want and willed,
And let your desires be fulfilled.
The awakening of your thoughts & dreams
Everywhere on the streets
Making you to believe
Be sharp, look beyond and perceive.
Be like a house built on a rock,
Not on the sand to fall and be mocked
Be one to lead the way
Not to fall and be led astray
Be the master of your will and mind
Not a slave of your passions
Go ahead and build a better world
Choose the good only and do not rest until
You have made this place a better world
AWAKE!! AWAKE!! AWAKE!!

-Ms Oshin kandpal
B. Tech(Third Year)-CS

TEENAGE

What a lovely feeling it was,
When you looked through the mirror and paused,
The world is changing around you,
Differences were there a few....
No more a kid, not an adult,
The period is sensitive, for a fault to be built,
You are mature enough you feel it,
Needs polishing a bit.....
It's the time should be handled with care,
Be patient,hold on your temper,
Things may seem beautiful, You may get attracted,
Remember your goal,don't get distracted.....
Hearts may fall for others,
Emotions may strike you close,
Life is a battle my dear,
Control,or else lose....

-Ms Shamama Kamal
B. Tech(Third Year)-CS

OUR MOTHER

Today I Sat Beside My Mom
Watching Her Sleeping Like a Baby

After All Those Hell Of Work
Realizing I Borrowed Blood, Bone, Breath & My Life & Everything From This Angel
Her Ankle Were Cracked & Ankle Chain Were Faded
That Pain In Her Knee Showed The Difficulties, She Have Been Through For Me
Her Petals Like Hands Became Rough & Hard
Those Gray Hair & Wrinkled Skin Are The Gift We Gave For Her Love
Those Sacrifice Made Us Look & Be Like Princess / Prince Charming
Watching Her Sweet Face Brought Tears In My Eyes
She Woke Up With Sweet Smile& Said
"Monkey Go, Go & Bring Some Vegetables For Dinner"
Me "Mom I am Busy, I Can't"
That Reply She Gave, Believe Me I am Still Crying
She Said . . ."After I Die, Don't Say U Are Busy to Do Those Final ritual..."

*- **Ms Ayushi Chauhan***
B. Tech (Fourth Year) -CS

INSPIRING QUOTES FOR THE STUDENTS

- Learning is not a spectator sport.
- Education is what survives where what has been learned has been forgotten.
- Learn from yesterday, live for today, hope for tomorrow.
- The purpose of learning is growth and our minds, unlike our bodies, can continue growing as long as we live.
- Be a student as long as you still have something to learn, and this will mean all your life.

-Mr Mayank Kumar
B. Tech (First year)-CS

CREATIVE & INNOVATIVE

Miscellany

Never

Never liked.....Because

I never liked History because I failed to make friends with Gandhiji and Akbar.

I never liked GEOGRAPHY because I had to go deep down in the sand dunes and come out through erupting volcanoes.

I never liked CIVICS because I could never meet the President or the Prime Minister.

I never liked CHEMISTRY because it was made up of too many atoms and molecules.

I never liked BIOLOGY because it gave a terrible name for a simple thing.

I never liked PHYSICS because the work done was more than the force applied by me.

I never liked HINDI because I had a battle with Rahim and Tulsidas.

I never liked MATHS because there was a battle between the formula and the sum.

I never liked ENGLISH because I was never present in the class.

-Ms Shefali Sharma
B. Tech (Third Year)-EC

FOOD FOR THOUGHT

1) RESERVATION REFUGEES
   - sounds good /bad ??????
   (hint: a lot of Indians going abroad due to poor /nil access to higher education and employment at home.)

2) URGENT NEED FOR ?????

   RATIONALISATION OF RESERVATION & NOT DELIBERATE DISCRIMINATION.

3) ROLE OF POLITICAL CLASS
   Do they really consider the effects of agitations like Jat agitation, Patil agitation on the morale of students & candidates appearing for various competitive examinations and opportunities, not under the reservation umbrella?????

4) Is the country promoting ---There is NO COST FOR DOING ANYTHING??????

   THINK, THINK & ACT.

-Mrs Ruchie Sah
Asst. Prof (Basic Sciences)

ACHIEVEMENTS AND LAURELS

(Toppers of 2015-16)

I Year : Ms Anchita Agarwal

II Year : Ms Varsha Saxena

III Year: Ms Vanshika Shukla

IV Year: Ms Shristi Sharma

(Results 2015-16)
(Promoted to next Year)

II Sem : 96.0%

IV Sem : 97.0%

VI Sem : 96.0%

VIII Sem: 99.9%

INNOVATIONS INVENTIONS THAT CAN CHANGE THE LIFE

SMARTPHONE-CONNECTED CONTACT LENSES

Engineers at the University of Washington have developed an innovative way of communicating that would allow medical aids such as contact lenses and brain implants to send signals to smartphones. The new tech, called "interscatter communication,"

END