

## REFLECTERE

Newsletter by the Department of Science

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Look for something positive in every day, even if some days you have to look a little harder.

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## Message from the Principal

**Dear Desalites,**

On August 21, 2017 our college celebrated the 450th Birth Anniversary of St Francis de Sales, the patron of our college. He believed in the power of knowledge so much so he christened it as THE EIGHTH SACRAMENT. Every Desalite in SFS College is directed towards life-giving knowledge especially in the department of Science. The activities of every month undertaken in the Science department are geared towards tapping the spring of wisdom and enabling the flow of knowledge. I wish the knowledge gained in teaching-learning activity would help every Desalite to grow as a real human being.

**Hail Desalite**



**Fr. Dr. Herold Christopher**  
PRINCIPAL

## Brainy Quote

It is the fundamental emotion which stands at the cradle of true art and true science. One thing we have learned in a long life: that all our science, measured against reality, is primitive and childlike and yet it is the most precious thing we have.

**"A little knowledge is a dangerous thing. So is a lot".**



## Let's Meet: Leonardo Pisano Bigollo - Mathematician



Bigollo, also known as Leonardo Fibonacci, is perhaps one of the middle ages greatest mathematicians. Living from 1170 to 1250, he is best known for introducing the infamous Fibonacci Series to the western world.

In addition, from this Fibonacci also contributed greatly to the introduction of the Arabic number system.

## Student's Corner

### NANOTECHNOLOGY

**Nanotechnology** is a latest extension in science engineering and technology conducted at the nanoscale which is about 1 to 100 nanometer.

Nanoscience and nanotechnology are the study and application of extremely small things and can be used with chemistry, biology, physics, material science and engineering.

There are plenty of applications in nanotechnology. Some are: Medicines, Electronics, Food, Fuel cells, Batteries, Space, Solar cells etc.

Researchers are developing a type of memory chip with a projected density of one terabyte of memory per square inch or greater.

- **Manigandan, B.Sc. V Sem**

### SUPER CAPACITOR

**Super Capacitor** is a new invention in field of electronics.



It is advanced version of simple capacitor. It has extra two layers of the dielectric material separated by a very thin insulator surface as the dielectric as compared to simple capacitor.

A Super capacitor is an electrochemical capacitor that has an very high energy density as compared to common capacitors, about 100 times greater capacitance range.

It is also known as Electric Double Layer Capacitor (ELDC) or Supercap or Goldcap or Ultracapacitor.

- **Dhanalakshmi.S, B.Sc. V Sem**

## Student's Achievements



**Desalite Dinesh Reddy K** participated in the 10th Federation Cup Senior Baseball Championship held at **NAKODAR(PUNJAB)** from 24-06-2017 to 26-06-2017 and secured the **THIRD PLACE**.

A one-day national workshop on **"DATA ANALYTICS WITH PYTHON"** on 29th August, 2017 organized by Dept of MCA - **Jyoti Nivas Autonomous College** Bengaluru was attended by **Desalite Manikanta from II BCA**.

This workshop was conducted by the renowned speakers Hariprasath Ravichandran and Arun David Johnson from SunArc Technologies.



## Faculty Achievements



A Two-Day Science Academies' Lecture Workshop on "*Mathematical Analysis and Applications*" organized by the Indian Academy Degree College Autonomous, was attended by **Prof. Roshini** and **Prof. Rashmi** along with **Desalites Monica, Dhanalakshmi, Kavithashree** from B.Sc.

Eminent speakers had come from TIFR-CAM, Bengaluru.

Detailed discussions were held on various topics related to "*Limits and Continuity*", "*Differentiability*", "*Differential equations*", "*Applications of Differential Equations*".

**Prof. Smrutee Markhedkar** along with **Desalites Harsha, Jebin and Melvin** from BCA attended one day state level workshop on "*A tryst with Universe*" at Jyoti Nivas Autonomous College Bengaluru on 13th august 2017.

This workshop was about new frontiers of technologies in Astrophysics and role of Electronics and Computer Science in it. It was a useful workshop for those who wants to pursue higher studies in this field.



**Dr. Smrity Prasad** delivered a lecture on "*Flip Flop*" on 23rd August 2017 at United Degree College, Bengaluru.

Her talk continued with bistable gates, Digital logic circuits, memory chips and microprocessors.

Her expertise on the above subject was very informative and useful. The talk was extremely valuable for the students and well-appreciated by all.

A One-day National Workshop on "*New Methodology for NAAC Assessment*" was attended by **Prof. Sailaja, IQAC coordinator** on 9th September, 2017.



The workshop was organized by Community college for Commerce and Management.

This work shop focused on the latest criteria points in NAAC ,and the new process for accreditation.



## MIMAMSA '17-National Level Students Seminar

The Third National-Level Students Seminar was organized by the Department of Science on the theme "*Digital Connectivity*" on September 15th 2017. The students actively participated in it and executed their roles and responsibilities with perfection as paper presenter and organizers.

A total of 98 students participated and interacted on various sub-themes of the seminar and 20 students making paper presentations. There were more than 10 colleges represented nationally. **Dr. Sathyasekar from S.A. Engineering College, Chennai** and **Dr. Jayashree from PES Engineering College, Bengaluru** came to judge the presenters.

**MIMAMSA'17** became a great platform for education to be truly reconstructed and rejuvenat-



### Synergy



Trying to squeeze in a team building activity among the faculty members amidst work? Well, that certainly is a challenge.

But what can be a more perfect, easy, fun and high-tech team building activity than that of having a "lunch together". It can be tricky to find the time to fit in a full team building program. However, this high-tech yet simple team building activity can be completed in half-an-hour to an hour.

Adding to it, this "*synergizer*" provides the perfect relaxation and will have the participants laughing for hours after you're done.

### Editorial Board



Prof. Rashmi



Dr. Smrity



Prof. Annie



Prof. Roshini

**Reflectere** is a Newsletter published from the **Department of Science - St Francis de Sales College, Electronics City, Bengaluru - 560100**. It highlights the activities of the Department and serves as a link between the Department as well as other colleges. You are welcome to send your feedback to [sfsbca.hod@gmail.com](mailto:sfsbca.hod@gmail.com)

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