



असतो मा सद्गमय ।
तमसो मा ज्योतिर्गमय ॥

SANDIP
FOUNDATION

SANDIP FOUNDATION

(Nashik Campus)

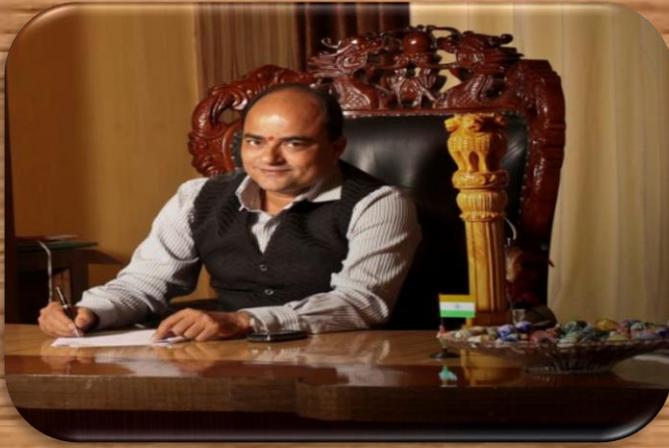
SANDIP
E-BULLETIN

FEBRUARY 2016



*SANDIP INSTITUTE OF
ENGINEERING &
MANAGEMENT*

....MESSAGE FROM THE CHAIRMAN....



SANDIP FOUNDATION was established in 2005 with a vision of creating an education system from which the leaders of tomorrow emerge. Since our inception we have been aware of our strengths, motives and goals which we have set out to achieve. When we embarked on this journey, all we had was a dream and the tools of foresight and strategy. We combined these forces to pave a path of growth towards excellence and merit. Today it is our endeavour to be the most competitive institution in the

country with emphasis on efficiency in everyday operations, reliability for students and thrust on discovery and development of new technologies. We are an organization that combines the latest developments in the field of education with our scientific and operational skills to create an environment which nurtures and encourages the aspirations of students. It is our aim that the combination of these factors along with the state of the art infrastructure and a dedicated teaching staff will provide an impetus to the Indian educational system as a whole. Our first campus is set up at Nashik, Maharashtra where the college building is spread across a 200 acre area. Keeping pace with the times, the campus is Wi-Fi enabled. To ensure the complete educational experience, laboratories with the latest tools and machinery are provided along with a comprehensive library with RFID technology, a computer centre with complete internet connectivity a wholesome cafeteria, all set up in a green environment to give our students the most healthy and pleasant experience as they embark and pursue their professional goals. What does an International quality Education system consist of? That is the question we asked ourselves when we set out to build this Foundation. India as a country has no problem with unemployment but there are institutions which churn out a large number of unemployable students. Should we consider ourselves an exception to this? The search for the answer has resulted in the faculty and staff to come up with innovative methods in teaching to construct new knowledge in the classroom. Our motto is to always give our students the best of what is happening in and around so that they are always at the cutting edge of academics the world over. The cultural aspect has always been a strong-point of our College as it has an acknowledged role in moulding the personality, teaching soft-skills, developing leadership and management abilities and strengthening the EQ. Extra-curricular activities, participation in sports and other cultural activities has now become universal contributing to all-round formation which is much needed in the world today. Finally we look to create an Alumnus for inspiration and support so that our students have wonderful role models to emulate. Our faculty and students remain focused on a quality of education that is not just a college degree but a way of life.

**HON. DR. SANDIP KUMAR JHA
CHAIRMAN
SANDIP FOUNDATION**

....MESSAGE FROM MENTOR & GM....



GM Message

Sandip foundation was established with the core objective of rendering selfless and dedicated, service to higher education in the disciples of Engineering, Sciences, Arts, management studies, Polytechnic and Pharmacy. It is our vision to provide education aided by the best infrastructure available in the most congenial atmosphere so that every student can aspire, achieve his dreams and succeed in life. The visionaries of Sandip Foundation have been involved in the field of higher education since the last fifteen years. During this period they have provided the most valuable service to thousands of students across the country. In the quest to enhance the cause of higher education, professional courses across various fields are designed and set up with the institution housed out of Nashik.

**Hon. Mohini Patil
GM, Sandip Foundation**



Mentor Message:

Sandip Foundation is an educational institution, which strives to form men and women who will build more than just a human world. It strives for an intellectual endeavour that focuses on critical and creative thinking, with the aim of social transformation. The college makes a preferential option for the marginalized and it seeks or give an all-round formation, inculcating both human and spiritual values. Competence, compassion and commitment are the hallmarks of the human person we seek to encourage. The infrastructure is world class with workshops, state-of-the-art Laboratories, overhead projectors in every classroom, and extensive library hostel facilities for outdoor students. The faculty and staff are dedicated in their task of making the Institution a world class learning centre and hence constantly look to improve the learning process.

**Hon. Prof. P. I. Patil
Mentor,
Sandip Foundation, Nashik**



Prof. (Dr.) R. G. Tated
Principal



Prof. N. L Bhirud
Dean Admin



Prof. A S Dube
Dean Academics



Prof. V A Kolhe
HoD (Mechanical)



Prof. Dr.D P Kadam
HoD (Electrical)



Prof.D Patil
HoD(E&TC)



Prof. K Bidkar
HoD (Civil)



Prof. K Nalavade
HoD(Computer)



Prof. R J Nayak
HoD(First Year)

Gods of Zero and Infinity

By Ms. Neetu M. Sharma

Assistant Professor in Mathematics, Sandip Foundation's SIEM

If one travels to the North Indian state of Uttar Pradesh, and visit a place called Deogarh, which literally means citadel of the gods, one will find the ruins of a Hindu temple, one of the oldest, at least 1500 years old, built by the kings of the Gupta dynasty. On its walls, there is the image of a man reclining on the coils of a serpent with many hoods, surrounded by his wife and many warriors and sages. It's clearly inspired by a scene from the royal court. But it is clearly a celestial scene, visualization of the moment when the world was created.



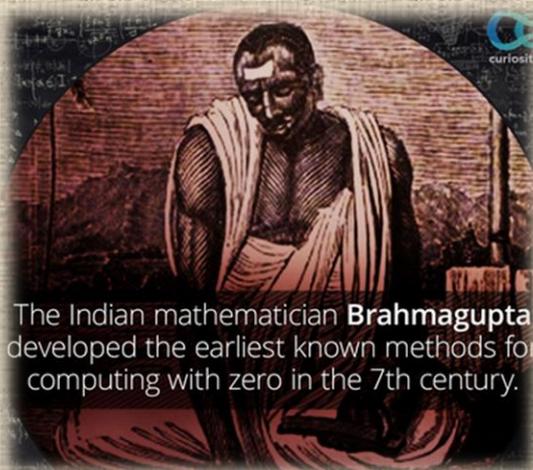
For Hindus, the world is created when Narayana awakes. Narayana is the god reclining on the serpent with multiple-hoods. When he is in dreamless slumber, the world does not exist. When he awakens, the world comes into being. Narayana is thus a visual representation of human consciousness, which awakening heralds the creation of our world.

What is interesting is the serpent on whose coils Narayana reclines. Its name is: Adi-Ananta-Sesha, which literally means *Primal-Limitless-Residue*, which is numerically visualised as One-Infinity-Zero. For with consciousness, we become aware of the first moment of beginnings, of limitless possibilities, and of nothingness that existed before the first moment.

The Hindu worldview has always been obsessed with infinity (everything-ness) and zero (nothingness) and with the number one (the beginning). More than Hindu, it is the Indic worldview, the substratum of thought which gave rise to three major ideas: Hinduism, Buddhism and Jainism, all of which speak of rebirth, cyclical time, and a world where there are no boundaries. Buddhism came up with ideas such as nirvana (oblivion) and shunya (which literally means zero). Jainism spoke of a world of endless possibilities (an-ekanta-vada). This is in stark contrast to the Greek worldview where the world begins as chaos until the gods create order. And with order come definitions, boundaries, certainty, and predictability. It is also different from the Abrahamic worldview where God creates the world out of nothingness and the world he creates in seven days has a definite expiry date: the Apocalypse. The Greek and Abrahamic worldviews inform what we call the Western worldview today that is obsessed with organization, and is terrified of disorder, and unpredictability, something Indians are used to and rather comfortable with, even thriving in it.

STAFF CORNER

The story goes that when Alexander, the Great, after having conquered Persia, visited India, he met a sage on the banks of the river Indus, who he referred to as a gymno-sophist or naked wise man, in Greek. This sage sat on a rock and spent all day staring at the sky. Alexander asked him what he was doing and the sage replied, "Experiencing nothingness." The sage asked Alexander, "What was he doing?". Alexander replied, "I am conquering the world." Both laughed. Each one thought the other was a fool. For Alexander, the sage was wasting his one and only life doing nothing. For the sage, Alexander was wasting his time trying to conquer a world that has no limits, with a sense of urgency that made no sense when one lives infinite lives. Belief in one life, which is the hallmark of Greek worldview, and later Abrahamic, results us in valuing achievements. But belief in rebirth, hence infinite lives, which is the hallmark of Indic worldview, makes achievements meaningless, and puts the focus on wisdom and understanding. When the denominator of life is one, the world is different from when the denominator of life is infinity.

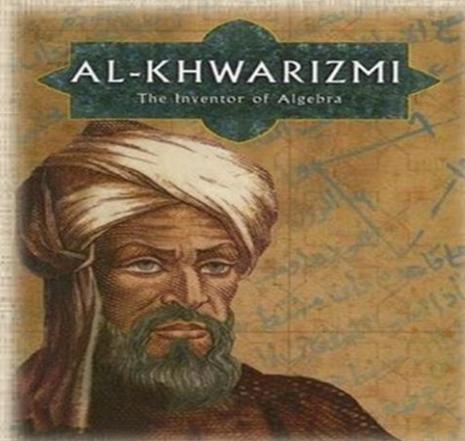


The Indian mathematician **Brahmagupta** developed the earliest known methods for computing with zero in the 7th century.

India's philosophical obsession with infinity and zero led to mathematicians not just conceptualizing the idea of zero, but also giving it a form (a dot), and finally using it in a decimal system. This happened around the same time that the Gupta kings built the temple in Deogarh. The mathematician Brahmagupta, 638 AD, is associated with giving form to the number zero, and formulating the first rules with its usage. The rise of the decimal system enabled the writing of vast numbers, of huge value, a practice that has been traced to even Vedic texts written around 1000 BCE, values that are not seen in any other parts of the world.

The Arab sea-merchants who frequented the coasts of India, and who dominated the rich spice and textile trade then (before the European sea-farers took over in the 16th century) saw value in this system and took it with them to Arabia. The Arab mathematician Khwarizimi suggested use of a little circle for zero. This circle was called 'sifr' which means 'empty', which eventually became 'zero'. Zero travelled from Arabia through Persia and Mesopotamia to Europe during the Crusades. In Spain, Fibonacci found it useful to do equations without using the abacus. Italian government was suspicious of this Arabic numbering system and so outlawed it. But the merchants used it secretly, which is why 'sifr' became 'cipher', meaning 'code'.

It comes as a shock to many people that the modern use of the number zero is less than thousand years old, and that it became popular less than 500 years ago. Had it not been for the arrival of zero, neither would the Cartesian coordinate system nor calculus have developed in the 16th century. Zero enabled people to conceptualize large numbers and helped in book keeping and accounting. In the 20th century, came the binary system which forms the foundation of modern computing. All because some wild Indian sages conceptualised the universe and their gods in terms of zero and infinity.



Reference: Book titled "God of Zero and infinity" by Devdutt, published on 23rd January, 2015

National Level Technical Competition on Poster

19 January, 2016



Book Exhibition

20-21 January, 2016



Expert Lecture on Cutting Tools Present Scenario & Applications

BY

Mr. B. Satish Muthukumar

S S Technovations, Satpur M.I.D.C., Nashik

12 January, 2016



:OBJECTIVES:

- Scenario of cutting tools, different types of cutting tool material
- Cutting tool nomenclature, turning, boring, milling cutters
- Inserts and the manufacturing process of Inserts
- Present trends of selection of cutting tools
- Cutting tools and their applications
- Selection criteria of cutting tools

Guest Lecture on Motivation- Mind-set & Positive Attitude

BY

Mr. Pramod D. Wagh

Forensic Psychologist, Memory Trainer

21 January, 2016



:OBJECTIVES:

On the occasion of Swami Vivekanand Jayanti celebration (Youth Week) through ABVP he covered various motivational stories and inspired our students. He had given the importance of positive attitude and setting the goal of your life, key to success.

2-Days National Level Workshop on Mind Wave Control Robot

8-9 January, 2016



TOP 3 TEAMS SELECTED FOR ROBOTICS COMPETITION AT IIT MADRAS:

TEAM 1:

Sachin Kadam, Vishal Deshpande, Shubham Rathod, Nitesh Kavthankar,
Kaustubh Adsare

TEAM 2:

Chauhan Ruchit, Gaikwad Mayur, Mahale Nikhil, Jangra Pankaj, Sagar
Swapnil

TEAM 3:

Bhushan Adavardkar, Gaurav Chapke, Aditya Patil, Jaineel Patel, Jerin
Kalappurayal

TechnoQuiz

(ISHRAE Student's Chapter)
16 January, 2016



Personality Development Session for F.E students

On the Occasion of National Youth Day

BY

Dr. Mohan Pawar

12 January, 2016



:OBJECTIVE:

The Speaker delivered a motivational speech to develop the overall personality of F.E students. He explained the benefits of positive thinking and mainly focused on "Mind Waves Development Skills". He also explained about Study skills, concentration tips, Time Management Skills etc. Around 270 students attended the program.

Seminar on "Stress Management"

Sponsored by SPPU

By

Dr. Vilaskumar Deshmukh, Principal,
NDMVP, Social Work College

11th January, 2016



:OBJECTIVE:

- The event was targeted towards the girl students of SIEM
- The speaker shared his views on Stress, major reasons of stress, what makes stress dangerous
- The speaker also identified many stress relieving methods that is easy to apply in day to day professional career.
- The lecture also showcased many methods to achieve good results in professional career.

Expert Talk on "REDHAT LINUX"

By
Mr. Yogesh Bagul, New Dreams Technology
6th January, 2016



Two Days State Level Workshop on "MATHEMATICAL MODELING IN ENGINEERING PROJECTS"

18st - 19th, January 2016



Session I: 'Mathematical Modeling Concepts'

By Dr. M. U. Kharat, HoD, Computer Engineering, MET's COE, Nashik.

Session II: 'Model Validation, Sensitivity Analysis, and Simulation'

Dr. R. K. Joshi, Professor, IIT, Bombay

Session III: 'Research Methodology & Software modelling'

Dr. V. P. Rathod, Lecturer, Govt. Polytechnic, Mumbai.

Session IV: 'Mathematical Modelling Concepts and Case Studies'.

Dr. D. G. Regulwar, Associate Professor, Government College of Engineering, Aurangabad

"DEBATE SESSION"

By S.V Amrutkar

12th January, 2016



"CCNA Company"

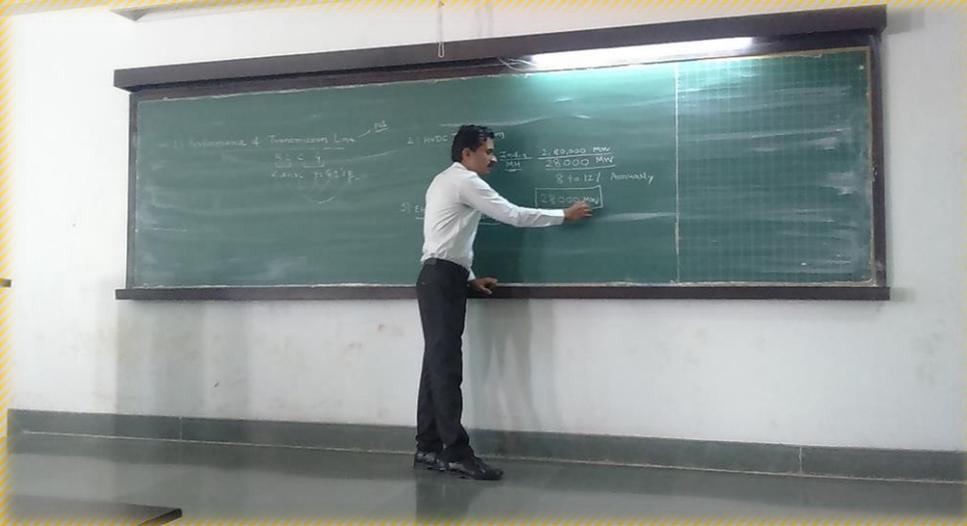
Interview and Certificate distribution

6th January, 2016



Expert Lecture on "Approach towards Learning Power systems"

By Mr. Sachin Wagh
Electro-Tech Academy, GATE Coaching for Electrical
6th January, 2016



The seminar was helpful to the students in understanding the concepts logically and applying the same during competitive exams. The resource person has also shared various tricks to solve the GATE questions. The important part of the session was the learning of students through logical thinking. In such a short duration of lecture, the students solved few competitive questions as well.

Expert Lecture on "Energy Conservation & Audit"

By
Mr. Sanjay Gawade, Certified Energy Auditor

11th January, 2016



The seminar was helpful to the students to understand the practical concepts of the subject Energy Audit and Management. Though this subject is theoretical, it holds great potential for finding various career opportunities if understood properly. Since, the resource person was having vast practical experience, it helped our students to feel the importance of the subject.

Guest Lecture on "Innovation Management"

By

Mr. R. Venkatesh, President Epcos TDK

4th January, 2016



The seminar was helpful to the students to understand the instinct of Innovation. The lecture was focussed on thinking process that creates a focus on creation of new thinking. He exemplified the development of various inventions that started from a small thought and created a major requirement of living. He also mentioned various product development process of MNCs like Nokia, etc.

Industrial Visit at Kadawa Sugar Factory, Dindori

For TE Electrical

19th January, 2016



Industrial Visit at Traction Motor Works, Nasik

For TE Electrical

22nd January, 2016



The Objective of Visit:

- 1 To witness the manufacturing of motors of large ratings
2. Study of internal components of a traction motor
3. To understand the general usage of DC motor and AC motors in railways
4. The witness the winding design, laminations, insulation structure.

One Day workshop on Advances in Surveying

By S. S. Barmade
28 December, 2015



Educational Visit to Construction site of pile foundation at Govind Nagar, Nashik

For TE Electrical

28 December, 2015



PLACEMENT NEWS

ELECTRICAL ENGINEERING DEPARTMENT



1. 5 Electrical Student placed in Visionary Technologies Pvt. Ltd, Nashik

MECHANICAL ENGINEERING DEPARTMENT

1. Sudhir W. Chaudhari, Design Engineer, G Square Tech Systems Pvt Ltd
2. Apurv R. Nere, Hemant N. More, Akash D. Chordiya, Intern-Trainee, Dhanraj Switchgears Pvt Ltd

CIVIL ENGINEERING DEPARTMENT



Mr. Shubham Deore
(Suprabha Construction Pvt Ltd)



Mr. Yash Bhamare
(Sonaje Infrastrucutre Pvt Ltd)



Mr. Gauray Sawant
(Sonaje Infrastrucutre Pvt Ltd)



Mr. Chetan Patil
(Shilpa Hi-Tech)

Team

THE E-BULLETIN





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SANDIP FOUNDATION



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