असतो मा सद्गमय ।
तमसो मा ज्योतिर्गमय ।।
SANDIP FOUNDATION

SANDIP FOUNDATION

(Nashik Campus)

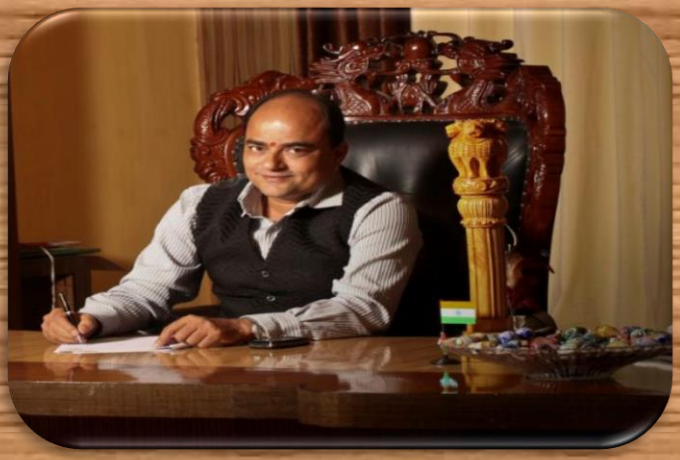
SIEM

E-BULLETIN

MARCH 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)

Importance of Mathematics in Electronics & Communication

By Prof. Neetu M. Sharma, Priyanka Ahire

Electronics and telecommunications technicians need more mathematics, including complex numbers, trigonometry, elementary geometry, elementary statistics, and differential and integral calculus. All areas want their students to be able to use technology, such as spreadsheets, to analyze mathematics. Better communication between mathematics and technology departments was considered vital.

The most important general goals for the mathematical education of students in technical electronics fields are

- Development of formula manipulation skills and understanding of the value of the formulas via the use of real problems
- Development of problem solving skills and critical reasoning.

ALGEBRAIC TOPICS AND SKILLS

- Solving equations for particular variables
- Linear equations and slopes
- Quadratic equations
- Important to test solutions for feasibility.
- Needed for complex numbers and conjugates
- Necessary for considering nonlinear effects
- Simultaneous equations (usually two equations)
- Cramer's rule, Gaussian elimination
- Matrix methods (for more than two variables)
- Manipulation of inequalities
- Number systems: binary, hexadecimal

FUNCTIONS

- Definitions of function, dependent variable, and independent variable
- Absolute value functions, step functions, polynomials, linear functions & slopes
- Exponential functions and logarithms (base 10)
- Composite functions
- Limits of functions, zeroes, asymptotic behavior, extrapolation
- Semiconductor example: where does Ohm's law break down?

STAFF CORNER

TRIGONOMETRY

- Basic trigonometric functions: sine, cosine, and tangent
- Computations with right triangles
- Relationships with the unit circle
- Graphical analysis of sines and cosines:
- Amplitude, phase, frequency, RMS peak, and relationship between RMS and peak.

VECTORS

- Resultants, addition and subtraction of vectors
- Vector products and cross-products (for higher level degrees)
- Phasors (vectors in the complex plane representing sinusoidal signals)

GRAPHS OF FUNCTIONS AND DATA

- Coordinate systems, both rectangular and polar
- Use of log and semi-log paper
- Curve-fitting techniques (linear regression, etc.)
- Graphical analysis

STATISTICS

- Means, medians, standard deviations
- Normal distributions
- Sigma notation
- Know when a process is "drifting" (statistical controls)
- Variability in measurements
- Difference between population and sample (discrete vs. continuous data)
- Descriptive statistics (skew)
- Quality control

DIFFERENTIAL AND INTEGRAL CALCULUS

- Derivatives and integrals and their meanings
- Delta Functions

SIGNAL ANALYSIS

- Fourier analysis. Deconstructing a periodic waveform into its constituent frequencies; see also: Fourier theorem, Fourier transform.
- Nyquist-Shannon sampling theorem.
- Information theory. Sets fundamental limits on how information can be transmitted or processed by any system.

"DESIRE 2k16"


Sandip Foundation's
Sandip Institute of Engineering
& Management, Nashik
Department of CIVIL Engineering
Association of Civil Engineering Students and
Association of Consulting Civil Engineers (India) Student Chapter SIEM
Presents
National Level Technical Festival
DESIRE
ACES
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2016


DESIRE


SANDIP FOUNDATION
DESIRE
Department of CIVIL Engineering SIEM, Nashik

INDUSTRIAL VISIT

PERSISTENT SYSTEM LIMITED, PUNE

19TH FEBRUARY, 2016

T.E. COMPUTER ENGINEERING STUDENTS

Brief:

In this visit, there were total 42 students and 4 staff members. The companies HR explored their ideas and views. They shared their experience with students. Student asked their queries regarding criteria, technologies to them. It was beneficial for student as they came to know about the working environment, latest technologies, and current requirement of industries and availability of different facilities.

INAUGURATION OF

STUDENT CHAPTER OF ASSOCIATION OF CONSULTING CIVIL ENGINEERS

5TH FEBRUARY, 2016

INDUSTRIAL VISIT

KADWA SAHAKARI SAKHAR KARHANA

7TH FEBRUARY, 2016

B.E. MECHANICAL ENGINEERING STUDENTS

Brief:

At the site there are two water Tube Steam Boilers of 1.2MW capacity which use Bagasse as primary fuel for furnace. Er. Gaikwad guided the students about all the boiler details and various steam processes. They also explained various mountings and accessories fitted on the boiler. The steam is further used for heating Sugarcane Juice. Students enjoyed the visit and learnt a lot about Cogeneration System.

EXPERT LECTURE
EXAMS & PROCESS FOR ABROAD EDUCATION

Mr. Manesh Damaniya, Global Carrier Hub, Nashik

15TH FEBRUARY, 2016

B.E. ENGINEERING STUDENTS (ALL BRANCH)

Brief:

Mr. Manesh Damaniya, Global Carrier Hub, Nashik having 21 years' experience in Carrier development and counselling for masters education in foreign universities. In the expert lecture he covered present scenario of education sector, future after completion of graduation as an Engineer, and the scope of foreign education. With the help of effective presentation and Videos he covered many points such as how to prepare for GRE, GMAT, TOEFL, SAT, IELTS, PTE, CAEL, etc. and part time jobs available in the foreign countries doing parallel with the studies. Process for VISA and documentation required during admission etc. This expert lecture helped our students to understand prospects available for them for pursuing higher studies in reputed foreign universities.

EXPERT TALK FOR
GRE PREPARATION & ABROAD STUDIES

Mrs. Balkawade Mam

2nd FEBRUARY, 2016

TE & BE CIVIL STUDENTS

EXPERT LECTURE
PRODUCT DEVELOPMENT: PHASES OF DEVELOPMENT OF CAR

Mr. Jaywant Ghodake, Manage, Tata Motors, Pune

13TH FEBRUARY, 2016

T.E. & B.E. MECHANICAL ENGINEERING STUDENTS

Brief:

Mr. Jaywant Ghodake, Manger, TATA Motors having 15 years' experience in product design & development and training. In the expert lecture he covered present scenario of Automobile Industries. He had given a brief presentation on product development of CAR. He had covered different phases in the designing the Car. How to do the Market survey for requirement of customers in a car. He also covered value addition in the cars. Redesigning a car, quality improvements through product development. Also he had guided the students regarding the areas to do their carrier in the field of Automobile industries and option available. Also he touched the Automobile styling, the software available for the Styling. With the help of effective Videos he covered many points of assembling designing and development of the Car. This expert lecture helped our students to understand the various parameters related to product design and development.

AN ACTIVITY OF MOCK INTERVIEW

12TH FEBRUARY, 2016

B.E. COMPUTER ENGINEERING STUDENTS

Brief:

The student association conducted a Mock interview session for the students of final year computer engineering. The faculties of the department conducted interviews of the students and presented an analysis of their response. Also, a Group Discussion round was kept for the students.

VALUE ADDITION PROGRAM ON TOTAL STATION

LAWRENCE & MAYO EXPERT

FOR T.E CIVIL STUDENTS

VALUE ADDED PROGRAM
CATIA V5 Training

Mr Dadasaheb Jadhav (Training Dept, IFS Academy-Pune)

5-14TH FEBRUARY, 2016

MECHANICAL ENGINEERING STUDENTS

Brief:

CATIA Software Training Program had been organized by Mechanical Department of Engineering in CAD Lab under Value Added Program. CATIA is the most versatile software in Automotive as well as Aerospace companies as it is having great feature of surfacing. CATIA enables the creation of 3D parts, from 3D sketches, sheet-metal, composites, molded, forged or tooling parts up to the definition of mechanical assemblies. The software provides advanced technologies for mechanical surfacing. It provides tools to complete product definition, including functional tolerances as well as kinematics definition. CATIA provides a wide range of applications for tooling design, for both generic tooling and mold & die. Many automotive companies use CATIA to varying degrees CATIA offers a solution to shape design, styling, surfacing workflow and visualization to create, modify, and validate complex innovative shapes from industrial design to Class-A surfacing with the ICEM surfacing technologies. CATIA supports multiple stages of product design whether started from scratch or from 2D sketches. CATIA v5 is able to read and produce STEP format files for reverse engineering and surface reuse.

VALUE ADDED PROGRAM

Design of IC Engine Components

Mr. Dipankar Aich (CEO & Founder- Prakarsa-Pune-Pune)

Mr Atul Pokale (Training Dept. - Prakarsa)

5-14TH FEBRUARY, 2016

MECHANICAL ENGINEERING STUDENTS

Brief:

Design of IC Engine components' workshop had been organized by Mechanical Department of Engineering, under Value Added Program.

In this workshop, CEO of 'Prakarsa' Mr Dipankar Aich with his collegue Mr Atul, were delivered various designs of components related to IC Engines in details like Cam designing, pistons and cylinder designing.

Mr. Dipankar had discussed current scenario in the Automotive Sectors with his huge experience of 15 years in industries Pune. He is working as consultant for TATA Motors, BOSCH and Emerson in pune.

His specialization is design development, Emission solution software. He briefly discussed the methodology of Design and Developments of IC engines. The components like Connecting Rod, Piston Speed, and Cylinder with Cylinder blocks and system of Inlet and Exhaust Valves with recent trends happened in FORD, TATA Motors and Emerson.

VISION O STUDENT

PLACEMENT NEWS

CONGRATULATIONS

Placement Details of Mechanical Engineering Students (February 2016)

Mr.Sainath D. Bendre
Trainee Engineer
Kaizen Measuring Systems Pvt.Ltd.

Mr.Aditya V.Kavdikar
Trainee Engineer
Kaizen Measuring Systems Pvt.Ltd.

Civil Department Placements

(February)

Miss. Bhagyashri Patil
(Shree Consultants nashik)

Miss. Pooja Patil
(Shree Consultants nashik)

Miss. Sunita Kale
(Shree Consultants nashik)

Miss. Nirali Pandit
(Shree Consultants nashik)

Team

THE E-BULLETIN

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SANDIP FOUNDATION

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