



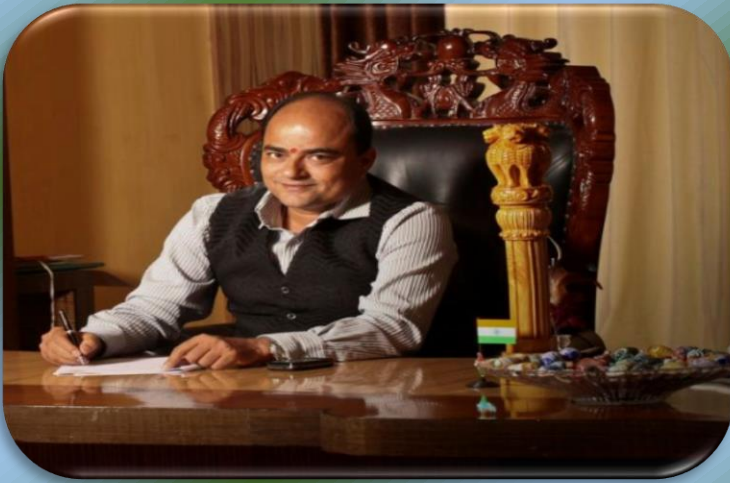
SANDIP FOUNDATION'S
SANDIP INSTITUTE OF
ENGINEERING & MANAGEMENT
Nashik



E-BULLETIN

SEPTEMBER 2015

....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 disciplines 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 to 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, an 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

....FROM THE PRINCIPAL'S DESK....



On Behalf of the Management, faculty and staff of SIEM it is an honour to welcome you to this prestigious institution. We at SIEM are strongly committed to providing quality technical education to our students. Now what does quality consists of? Is it mere state-of-the-art laboratories and a well-furnished classroom or does it also involve the proactive participation of teachers and students alike? These are some of the questions we asked ourselves before embarking on this journey. In the ensuing years our faculty took up this task seriously, of trying to understand what international quality means and of making the effort to make this a reality. Of course we laid emphasis on educational infrastructure laboratories and libraries and other resources for teaching. But the

core of our efforts centred on applying innovative methods to our teaching-learning and evaluation, in spite of the large numbers we deal with. If our students don't pick up the skills of analysis and critical thinking, all the memorisation and reproduction they may achieve in this Institution will be in vain in the global culture and economy. It is our belief that every student has an unending pool of talent and when nurtured properly can help bring out the best in that individual.

The approach of the Institution is holistic. It has called for learning methods that are more demanding both on the professor and student. It has led to a renewed emphasis on research for faculty and to initiating a taste for research among students. The monitoring of this process by Heads of Departments and by Academic Administrators, in order to encourage good practices and to evaluate their effectiveness, gives hope of a renewal of academic culture on campus. I want to congratulate you and wish you the best on this journey. It is our assurance that at SIEM you will emerge as tomorrow's leader, today.

DR. R.G. TATED
PRINCIPAL
SIEM, NASHIK

.....DESK OF THE DEANS.....



Prof. N. L. Bhirud
Dean Admin (SIEM)



Prof. A. S. Dube
Dean Academic (SIEM)

The institute offer Undergraduate courses. From the time of its commencement, the institute have been seen remarkable growth with time, and the augmentation process is always on. The departments are dynamically active in imparting good eminence and value based education to the students. The present and the future prospect of the learning process and experimentation and exchange of ideas are continuously taking place.

Each department has different laboratories, well equipped with modern instruments, classrooms, and separate computing facilities with licensed software and have ensured the needs of the undergraduate technical courses are provided. The departments have got their own collection of reference material, manuals, textbooks, magazine issues in its departmental library. It also facilitates the students with proper internet connections for reference on the internet.

The departments also have a good history in the academic grades as well. It also actively conducted various events under the students association of their respective departments. The department encourages the students to attend seminars and workshops and also participate in extra-curricular activities. We once again welcome you all to the Departments of our college.

Department Of MECHANICAL ENGINEERING



Prof. Vikram A Kolhe
(HoD)

Applications of Optimization & Operations Research Techniques on the shop floor

Mr. Shrikant Agarkar, BOSCH

Conducted on 10.09.2015



On 10th Sep 2015, students of final year mechanical were addressed by Mr Shrikant Agarkar (Deputy Manager, BOSCH, Nasik) on the real time applications of operations research techniques that they learn in the class. He linked current UniPune syllabus of Operations Research & Product Design & Development,

to the current practices under his professional domain. He emphasized real time decision making on the shop floor through CPM (Critical Path Method) & PERT (Program Evaluation Review Technique). He also explained applications of Project Management & Supply Chain Management in PLM (Product Lifecycle Management), with the importance of forecasting skills. The key highlight of this seminar was the case study of the CRT (Common Rail Injection) systems that has drastically changed the Automobile industry, since 2008. All the time the enthusiasm of the students kept pouring out in the form of variety of questions, leading to small spells of healthy interactions between them and the speaker.



X-LASH BACK (Crane Modelling Competition)

Prof. B. M. Dusane

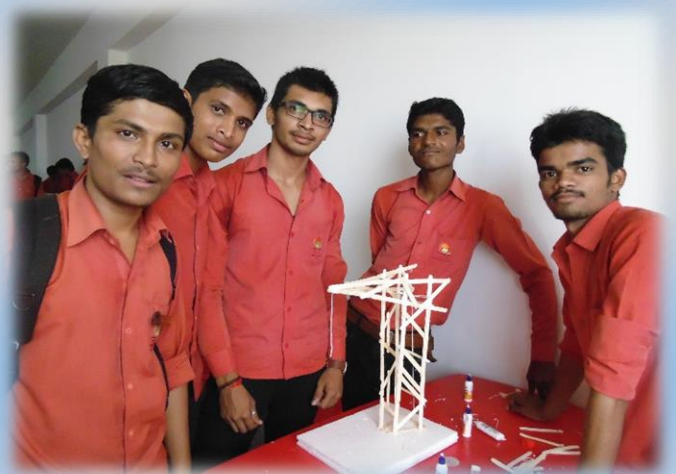
Prof. Hemant B. Karkade

Conducted on 10.09.2015



MESA organised X-LASH BACK a crane modelling competition with overwhelming response, all total 43 groups were registered and each group consist of 4 students (172 students participated). This event was organised to provide the student a platform to showcase their talent by preparing the different designs of Cranes from the stuffs { Ice-cream stickes, fevicol, therads & thermocol sheets} provided to them within the stipulated time.

One hour and thirty minutes were given to the students for the preparation of the Crane Model, the event was started at 03:00 p.m. and the evaluation of the same is started at 04:30 p.m. on the basis of maximum load carrying capacity of the Crane model. Prof. Ankita Patil , Prof. Neetu Sharma and Prof. H. B. Karkade were called to Judge the competition and the winning team's Crane Model is selected, the load sustained by the crane was 400 grams. Vidya Bhaleroa & her group won the competition.



Opportunities to pursue higher education out of India

Mr. Amit Gore, Akshay Study Abroad

Conducted on 21 & 22nd September



Students of final year class from all departments, were addressed by Mr Amit Gore (Consultant, Akshay Study Abroad, Nasik) on the opportunities to pursue higher education, beyond Bachelor of Engineering, out of India. Mr Amit not only presented vital information regarding various aspects such as eligibility, finances, scholarships, visa, application steps, etc. but also

provided insight by sharing experiences of the students currently studying in these countries. His motivation to the students was very noteworthy, since now student's dreams definitely seem in their grasp. He also surprised the audience, delightfully, when he showcased a growing Sandip community already



off the Indian shores. All the time the enthusiasm of the students kept pouring out in the form of variety of questions, leading to small spells of healthy interactions between them and the speaker.



MINI PROJECT COMPETITION

Conducted on 30th September



MESA organised Mini Project competition with 33 groups. This mini-project competition will provide platform to the students to showcase their talent, communication skills and technical knowledge through the projects they have prepared.

For evaluation of the project, the judges included:

Prof. S. S. Raut, SP, Nashik

Prof. A.D. More, SIP, Nashik

Prof. Kunal Borse SP, Nashik

Prof. Arvind Jadhav, SP, Nashik

Prof. S.J. Chede, SIEM, Nashik

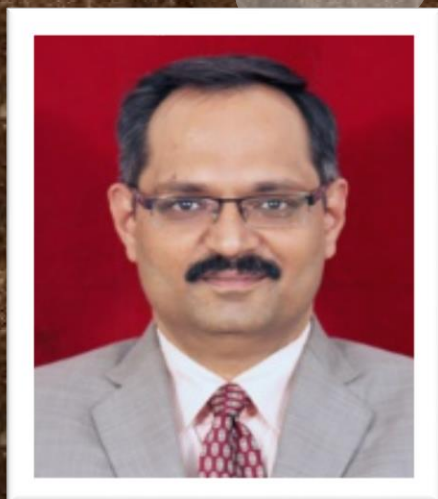


Three winners and two appreciation prizes were selected. Prof. M. S. Mhaske and Prof. A. P. Patil were the anchors for the program. All the prizes and certificates were given with the hands of delegates present. Our



respected Principal Dr. R. G. Tated sir address the gathering and motivate all of us with their valuable word.

Department Of ELECTRICAL ENGINEERING



Prof. Hemant R Kulkarni
(HoD)

Sandip Drishti 2015





Workshop On Women Empowerment

By Prof. Shraddha Vinchurkar
For SE & TE Girl Students



A Day with Solar Energy

29th September, 2015 for BE Students



Department of CIVIL ENGINEERING



Prof. Kisan Bidkar
HoD

Inauguration of Wall of Discovery and Muktaangan Mokala



Industrial Visits

1. Hot Mix Plant, Vilholi for B.E Civil on 5/9/2015

(Subject: Transportation Engineering)



2. Vaitarna Hydroelectric Station for T.E Civil on 22/9/15

(Subject: Fluid Mechanics II)



Fresher's Party for Second Year Students organized by ACES



Industrial Visit for T.E Civil

(Subject: Structural Design- I)

1. National Pipe Industry, Nashik on 11/9/2015



2. Railway Workshop, Manmad on 15/9/2015



Engineer's Day Celebration

On 15 September, 2015

Blood Donation Camp



Inauguration of Sir M Vishweshwaraya Statue

by MP. Hemant Godse and Er. Vijay Sanap



Department Of COMPUTER ENGINEERING



Prof. Umesh B Pawar
(HOD)

Workshop On "Mongo DB"

By Mrs. Shrdhha Deshpande ,Nashik

23rd September 2015



Theory Sessions



Prasctical Sessions



Orientation program on C Programming

30th July, 2015-14th August, 2015



The department of Computer Engineering (SIEM) has conducted "Orientation program on C Programming" for second year students during 8.00 am to 10.00 am. The workshop was conducted by our faculties, Prof. U. B. Pawar, Prof. K. C. Malavade, Prof.A.R.Gaidhani, Prof.S.A.Ahirrao, Prof.V.R.More, Prof.S.V.Amrutkar.

The aim of the program was to provide the detailed knowledge about C programming. The program was mostly focused towards the concepts and hands-on session, which made it effective. It also consists of the demonstration of the software installation and various . The feedback from students is very positive and all appreciation goes to our faculty.



Department Of
ELECTRONICS &
TELECOMMUNICATION
ENGINEERING



Prof. Dipak Patil
(HoD)

Lecture on Soft Skills

By Miss. Neha Malu, Operations Manager, Fleming Gulf, Pune

3rd September 2015 for B.E (E&TC)



Alumini Talk for B.E (E&TC) Students

by Miss. Payal Chumbale
7th September 2015



Outcome of the session:

- Miss .Payal Chumbale is alumni for the A.Y 2014-15.
- Interactive session was held regarding her journey of facing Interviews
- She is having currently offer letters of 3 different companies
a) Infosys b) Syntel and c) SAMA Technologies
- Motivational ideas were shared for the preparation of GD's and PI's along with technical skills and different opportunities in the field of E&TC Engineering.



Guest Lecture on **Opportunities in Defence sector**

Mr. Sopan R Doke, Lt. Commander (Retd.),

Marine Chief Engineer Officer, Indian Navy

23rd September 2015 for B.E & T.E S



Lecture On "Linux Environment"

By Prof. Tushar Kute, Asst. Professor, SITRC

11th September 2015 for BE Students



Linux, computer operating system (OS) assembled under the model of free and open-source software development and distribution. The defining component of Linux is the Linux kernel, an operating system kernel first released on 5 October 1991 by Linus Torvalds. The Free

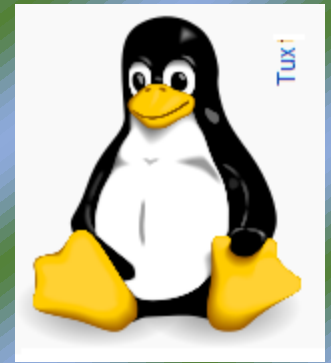
Software Foundation uses the name *GNU/Linux* to describe the operating system, which has led to some controversy. Linux was originally developed as a free operating system for personal computers based on the Intel x86 architecture, but has since been ported to more computer hardware platforms than any other operating system. Thanks to its dominance on smartphones, Android, which is built on top of the Linux kernel, has the largest installed base of all general-purpose operating systems. Linux, in its original form, is also the leading operating system on servers and other big iron systems such as mainframe computers and supercomputers



Four day workshop On "Embedded Linux"

By Mr. Mangesh & Mr. Ashish (MicroEmbedded Tech., Pune)

5th to 8th September 2015 for BE E&TC



In this workshop, Students of BE E&TC were trained on Embedded Linux, a widely used OS. Due to its low cost and ease of customization, Linux is often used in embedded systems. In the non-mobile telecommunications equipment sector, the

majority of customer-premises equipment (CPE) hardware runs some Linux-based operating system. OpenWrt is a community driven example upon which many of the OEM firmwares are based.



“Engineers' Day Celebration”

15th September 2015



On the occasion of Engineers' day, following competitions were held for E&TC students of SIEM, SP and SIP in E&TC Department of SIEM :

1. Aptitude Test
2. Debate Competition (War of words)
3. Paper Presentation



"Awareness session on Campus Placement"

11th September 2015 for S.E (E&TC)

by Prof. Indrajit S. Sonawane (TPO, Sandip Foundation)



Prof. Indrajit Sonawane made the students aware with the present Campus Placement Scenario. He had discussed the eligibility criteria of different MNC's. He rejuvenated the students by explaining the Opportunities for E&TC engineer in Public & private sectors. He has given the information of various Value Addition Program which will be beneficial for campus selection. This session developed positive attitude amongst the second year students regarding campus placement & it created serious approach about their career.

"Mock Interview"

8th Sept 2015 for B.E (E&TC)

by Prof. Indrajit S. Sonawane & Miss. Sayali Madane

Training Placement Cell, Sandip Foundation



Prof. Indrajit Sonawane & Miss Sayali Madane conducted HR Interviews . Prof. Y.R. Risodkar conducted Technical Interview. Interactive session was held individually regarding how to appear for Interviews .Confidence was boosted amongst the students as they got the opportunity to face technical & HR interview. Complete analysis of individual student was done which ultimately helped the students for their betterment in future.



Department Of
APPLIED SCIENCE
(FE)



Prof. Rashmi Nayak
(HoD)

Presentation & Poster

APPLICATIONS OF MATHEMATICS

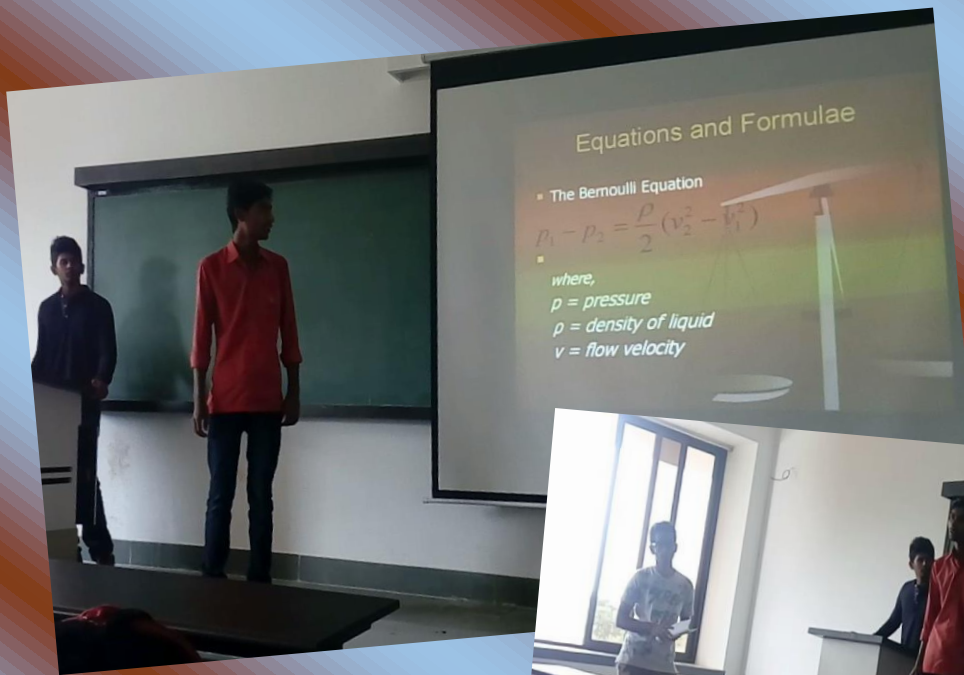
IN CIVIL, ELECTRICAL & MECHANICAL ENGG.

Prof. Ms. Neetu M. Sharma, Event Coordinator

The students of SE impressively presented the engineering topics with the help of mathematical background, modelling & formulations. The information was nicely blended with pictures, tables, calculations & future scope of applications.



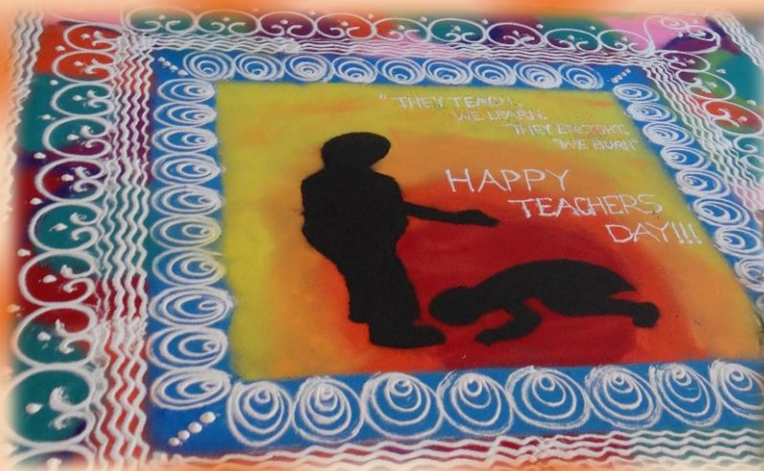
As quoted by the coordinator, Such competitions are very much necessary to fill the gap between the theory and practice of mathematical concepts in engineering. The HoD expressed that such competitions promote the application based learning which is essentially require in current scenario



TEACHER'S DAY CELEBRATION

5TH SEPTEMBER, 2015









STAFF CORNER



Probability and the Birthday Paradox

By Prof. Ms. Neetu M. Sharma

Assistant Professor in Mathematics, ESH Dept., SIEM

Have you ever noticed how sometimes what seems logical turns out to be proved false with a little math? For instance, how many people do you think it would take to survey, on average, to find two people who share the same birthday? Due to probability, sometimes an event is more likely to occur than we believe it to.



In this case, if you survey a random group of just 23 people there is actually about a 50-50 chance that two of them will have the same birthday. This is known as the birthday paradox. Don't believe it's true? You can test it and see mathematical probability in action.

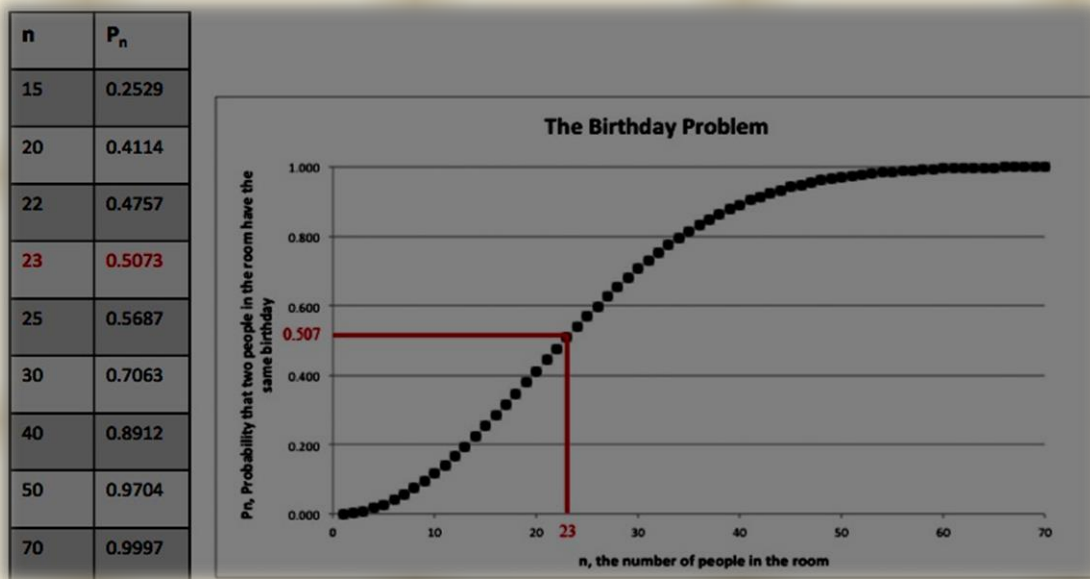
When comparing probabilities with birthdays, it can be easier to look at the probability that people do *not* share a birthday. A person's birthday is one out of 365 possibilities (excluding February 29 birthdays). The probability that a person does not have the same birthday as another person is 364 divided by 365 because there are 364 days that are not a person's birthday. This means that any two people have a $364/365$, or 99.726027 percent, chance of not matching birthdays.



STAFF CORNER

As mentioned before, in a group of 23 people, there are 253 comparisons, or combinations, that can be made. So, we're not looking at just one comparison, but at 253 comparisons. Every one of the 253 combinations has the same odds, 99.726027 percent, of not being a match. If you multiply 99.726027 percent by 99.726027 253 times, or calculate $(364/365)^{253}$, you'll find there's a 49.952 percent chance that all 253 comparisons contain no matches. Consequently, the odds that there is a birthday match in those 253 comparisons is $1 - 49.952 \text{ percent} = 50.048 \text{ percent}$, or just over half! The more trials you run, the closer the actual probability should approach 50 percent.

Background



The birthday paradox, also known as the birthday problem, states that in a random group of 23 people, there is about a 50 percent chance that two people have the same birthday. Is this really true? There are multiple reasons why this seems like a paradox. One is that when in a room with 22 other people, if a person compares his or her birthday with the birthdays of the other people it would make for only 22 comparisons—only 22 chances for people to

STAFF CORNER

share the same birthday.

But when all 23 birthdays are compared against each other, it makes for much more than 22 comparisons. How much more? Well, the first person has 22 comparisons to make, but the second person was already compared to the first person, so there are only 21 comparisons to make. The third person then has 20 comparisons, the fourth person has 19 and so on. If you add up all possible comparisons ($22 + 21 + 20 + 19 + \dots + 1$) the sum is 253 comparisons, or combinations. Consequently, each group of 23 people involves 253 comparisons, or 253 chances for matching birthdays.

INTERESTING ISN'T IT?????

Team

THE E-BULLETIN





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तमसो मा ज्योतिर्गमय ॥

SANDIP FOUNDATION



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