

S.P.B. Patel Engineering College

Expert Lecture- Mathematics

An expert lecture of 1st Semester on 11/12/2019 (Wednesday) organized by S.P.B. Patel Engineering College.

The event was moderated by Prof. Mehul V. Patel (Head- H & Sc.). The topic of the expert lecture was “**Basics of Matrices**”. The objective of the expert lecture was students’ understand the fundamental of matrix and application of it.

The expert lecture started with the introductory of expert Dr. Shailesh Patel by Prof. Mehul Patel

The speech of highly experienced Dr. Shailesh Patel gave an illustrative presentation about the basic of matrix. The students get the concept of a determinant, determinant of a matrix, matrix with its determinant of value, transpose of a matrix, minors and cofactors of an element of a matrix.

It was very appreciated by students as complete session was full of ideas about how to implement our thoughts from drawings to ground.

The following numbers of students were present in the expert lecture.

Sr No	Branch Name	No of Students Present
1	1 st Mechanical	42
2	1 st Civil	14
3	1 st Automobile	17
	Total	73

The students asked different types of questions related to the topic. Outcome of the lecture was students were able to solve a system of linear equations by matrix method.

Students were very happy to get a chance to interact with Dr. Shailesh Patel followed by a doubt clearing session. They also thank Department for organizing such an informative talk.

At the end, The Principal, faculty members and Students appreciate the speaker.

S.P.B. Patel Engineering College



(INTRODUCTORY AND LECTURE SESSION OF SPEAKER)



(LECTURE & QUESTION – ANSWER SESSION)



S.P.B. Patel Engineering College

14th December, 2019

Submitted:

Subject: Report on Expert Lecture- Time Management

An expert lecture of 1st Semester on 13/12/2019 (Friday) organized by S.P.B. Patel Engineering College.

The event was moderated by Prof. Parixit Pandya. The topic of the expert lecture was “**Time Management**”. The objective of the expert lecture was students understand the importance of time, also why time management is important, how one can stop wasting time, and start using it wisely.

The expert lecture started with the introductory of expert Dr. Vishnu Awasthi by Prof. Parixit Pandya. Prof. Mehul Patel, other faculty members and students welcomes the Speaker.

Time Management is the thinking skill that helps children to prioritize tasks and accurately judge the amount of time needed to complete them. It helps them to complete activities in a timely fashion, and learn to manage and stick to a schedule.

The speech of highly experienced Dr. Vishnu Awasthi gave an illustrative presentation about Time Management. The students get the concept of how to give priority to the particular task, also how can they do utilize time in their day to day life.

It was very appreciated by students as complete session was full of ideas about how to implement our thoughts from drawings to ground.

The following numbers of students were present in the expert lecture.

Sr No	Branch Name	No of Students Present
1	1 st Mechanical	30
2	1 st Civil	12
3	1 st Automobile	14
	Total	56

The students asked different types of questions related to the topic. Outcome of the lecture was students were able to understand the importance of time management.

Students were very happy to get a chance to interact with Dr. Vishnu Awasthi followed by a doubt clearing session. They also thank Department for organizing such an informative talk.

Prof. Dharmendra Kandoi also explains rules & regulations of GTU exam.

At the end, The Principal, faculty members and Students appreciate the speaker.

1st year coordinator

(Prof. Mehul Patel)

Principal

(Prof. M.A. Patel)

S.P.B. Patel Engineering College



(INTRODUCTORY AND LECTURE SESSION OF SPEAKER)



(LECTURE & QUESTION – ANSWER SESSION)



S.P.B. Patel Engineering College

Expert Lecture- English

An expert lecture of 1st Semester on 12/12/2019 (Thursday) organized by S.P.B. Patel Engineering College.

The event was moderated by Prof. Parixit C. Pandya. The topic of the expert lecture was “**The Art of Learning (New) Language**”. The objective of the expert lecture was students achieve functional proficiency in listening, speaking, reading, and writing. Recognize culture-specific perspectives and values embedded in language behavior. Such session pour an extra enthusiasm to student in their study.

The expert lecture started with the introductory of expert Dr. Pooja Mehta.

The art of learning a new language is an important part of communication. Good language learning skills enables to communicate your message with clarity. The expert focuses on different techniques of learning a new language in an easy way.

The speech of highly experienced Dr. Pooja Mehta gave an illustrative presentation about the structure of learning a new language; also explain how to make it effective. She explains the requirement of a good command of the language in which you write or want to write. It was very appreciated by students as complete session was full of ideas and very interesting.

The following numbers of students were present in the expert lecture.

Sr No	Branch Name	No of Students Present
1	1 st Mechanical	38
2	1 st Civil	13
3	1 st Automobile	17
	Total	68

The students asked different types of questions related to the topic. Outcome of the lecture was Students acquired good knowledge on how to learn a new language.

Students were very happy to get a chance to interact with Dr. Pooja Mehta. They also thank Department for organizing such an informative talk.

At the end, the principal, faculty members and Students appreciate the speaker.

S.P.B. Patel Engineering College



(INTRODUCTORY AND LECTURE SESSION OF SPEAKER)



(LECTURE & QUESTION – ANSWER SESSION)





Saffrony Institute of Technology
S.P.B Patel Engineering College
Linch-Mehsana-384435

Report on ‘One day workshop on CREO for Beginners’

Date: 10th January 2019

Duration: 9:30 am to 3:30 pm

Venue: S.P.B. Patel Engineering College, Mehsana

No. of Participants: 23 students from 4th semester Mechanical and Automobile branch

Introduction and Objective:

In this competitive world, it is mandatory to keep one's self-updated. The world is changing too fast and we need to adapt ourselves. It is challenging but inevitable if one strives to progress. To acquaint students with new technology Mechanical and Automobile Engineering Department of Saffrony Institute of Technology organized a hands-on training session on CREO for 4th semester ME and AE students on 10th January,2019.

Students had a hands-on training session for CREO by Parametric Technology Corporation (PTC) which is an industry leading CAD software (used by Mitsubishi, BMW, Bosch). They learned the sketcher module by practicing the examples. The session resulted in a fruitful and enriching experience for the students as well the faculty.

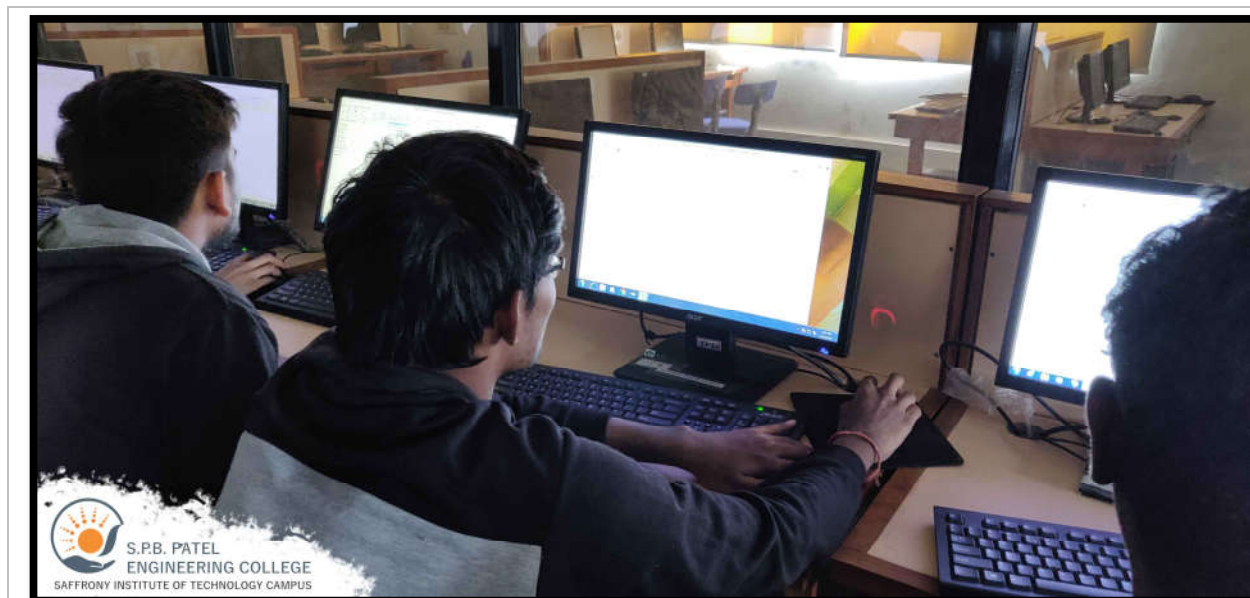
Prepared By:

Prof. Kunalsinh Kathia

Mechanical Department

Saffrony Institute of Technology

Creo for Beginners Workshop at glance



EXPERT TALK -CONSTRUCTION PROJECTS

Date: 7th September 2018

Duration: 29 minutes

Presenter: Mr. Harshal Parikh, Design Director, Dholera SIR- L&T Projects

Organizer: Civil Engineering Department, Saffrony Institute of Technology

Introduction:

The Civil Engineering Department at Saffrony Institute of Technology organized an expert lecture on Construction Projects for 3rd Semester Civil Engineering Students. The session, held on 7th September 2018, featured Mr. Harshal Parikh, Design Director at Dholera SIR- L&T Projects, as the esteemed speaker.

Objective:

The primary aim of the expert session was to provide students with foundational knowledge about Construction Projects and Project Life Cycle. The session sought to elucidate the various elements integral to construction projects and highlight the role of diverse engineering disciplines in the overall project execution.

Speaker's Profile:

Mr. Harshal Parikh, a Design Director with extensive experience, particularly in Dholera SIR- L&T Projects, brought a wealth of practical insights to the lecture. His expertise added significant value to the understanding of construction projects.

Key Topics Covered:

The presentation covered essential concepts related to Construction Projects, emphasizing the Project Life Cycle. Mr. Parikh elaborated on the crucial elements involved in project execution and elucidated the specific contributions of various engineering disciplines within the broader construction project framework.

Interactive Session:

The expert talk concluded with an interactive question-and-answer segment, providing students with the opportunity to seek clarification on specific topics related to construction projects. This interactive format enhanced student engagement and comprehension.

Conclusion:

The expert talk by Mr. Harshal Parikh served as an enriching experience for 3rd Semester Civil Engineering students, bridging the gap between theoretical knowledge and practical application in the construction industry. The Civil Engineering Department expressed appreciation for Mr. Parikh's valuable contribution to the students' academic journey.

Photographs:







Saffrony Institute of Technology
S.P.B. Patel Engineering College
Linch-Mehsana-384435

Report on ‘Expert session by Mr. Harshil Shah on “CAD-CAM-CAE” for Mechanical and Automobile Engineering students

Name of Resource Person: Mr. Harshil Shah

Designation and Institute details: Mr. Harshil Shah - the Director of Symmetric Solutions

Date: 8th July, 2019

Duration: 9.30 am to 12.30 pm

Venue: Auditorium Hall, Saffrony Institute of Technology

No. of Participants: 105

Organized By: Prof. Chitralkha Nahar, Prof. Yuvrajsinh Parmar, Prof. Chirag Korat

Introduction and Objective:

The objective of the expert session was to make students aware about the different designing tools such as CAD,CAM,CAE. One of the key objectives of this session was to make students realize about how today's technology which is helpful to industries in numerous ways is connected with many strong powerful tools of CAD, CAM, and CAE.

Session details:

July 8, 2019

The session started with welcoming of Mr. Harshil Shah by Prof. Chitralkha Nahar through giving his formal introduction and achievements to students. Mr. Harshil Shah has a vast experience in the field of design through various Industry-based projects.

Mr. Harshil Shah started the session with basic introduction about CAD and after that he talked about CAM and CAE in the following way.

CAD

- 1) In the beginning, the difference between design and modelling was explained.
- 2) Traditional Engineering design was: Market survey >Design > Variety > Manufacturing > Customer feedback

Important Keywords in Modern Design

Data, Quality, Customer, Purchase, Cost, Market, Material, Manufacturing, Data management, Assembly

CAM

- 1) In past around 10 years ago, it was done manually.
- 2) There were M code and G code which were used in machine for process. These codes were generated manually.
- 3) Human injuries were common in it.
- 4) Today, these codes are generated using software. So, less human power is required.

CAE

- 1) In past, calculations were done manually which took too much time. So to calculate complex problems, skilled engineers were required.
- 2) Today, simulation software is doing calculation by itself. Any designer can do/solve complex problems. Software is user friendly. The most beneficial thing is that R&D became very fast.

Benefits of Engineering software

- Easy to use
- Accuracy and quality
- Time and cost reduction
- Quantitative production
- Storage issues are solved
- Feasible

Software

<u>CAD</u>	<u>CAM</u>	<u>CAE</u>
Catia(for outer body, only it is used-100%)	Master CAM	Adams/MS(In western, only it is used in Auto)
Solid edge	Cimatron	Ansys
Solid work	Catia	Abaqus
Creo	Solid work	Creo
Autocad	Creo	Solid work
NX	NX	Catia
Revit		Lsdyna

<u>Low end</u>	<u>Mid end</u>	<u>High end</u>
CAD	CAD+CAM	CAD+CAM+CAE
	CAD+CAE	
Software: Autocad	Software:Ansys	Software:Creo, Catia, Solidwork

Autodesk

- There are 60 products.
- CAD, Revit, Fusion, Inventus, Maya (Animation can be made), 3DS Max (3D model graphics)

PTC

- Creo, Mathcad, Windchill
- In zero, after 4.4 version, CAE analysis can be done.

AR reality

- There is one android app named 'Vuforia' in which we can import Creo product and see the reality in the mobile display. That app is using camera function.

Mr. Harshil also explained the importance of placement and also delivered some tips on technical and nontechnical skills development such as importance of goal, communication skill, personality etc. He also explained students about the needs of industries today and in the future. He also showed his resume and projects done during his career. At the end of the session, a task was given to students to draw an improved innovative sketch of any existing items, in which many students also came up with creative sketches. So, the overall session proved to be very interesting and informative for students.

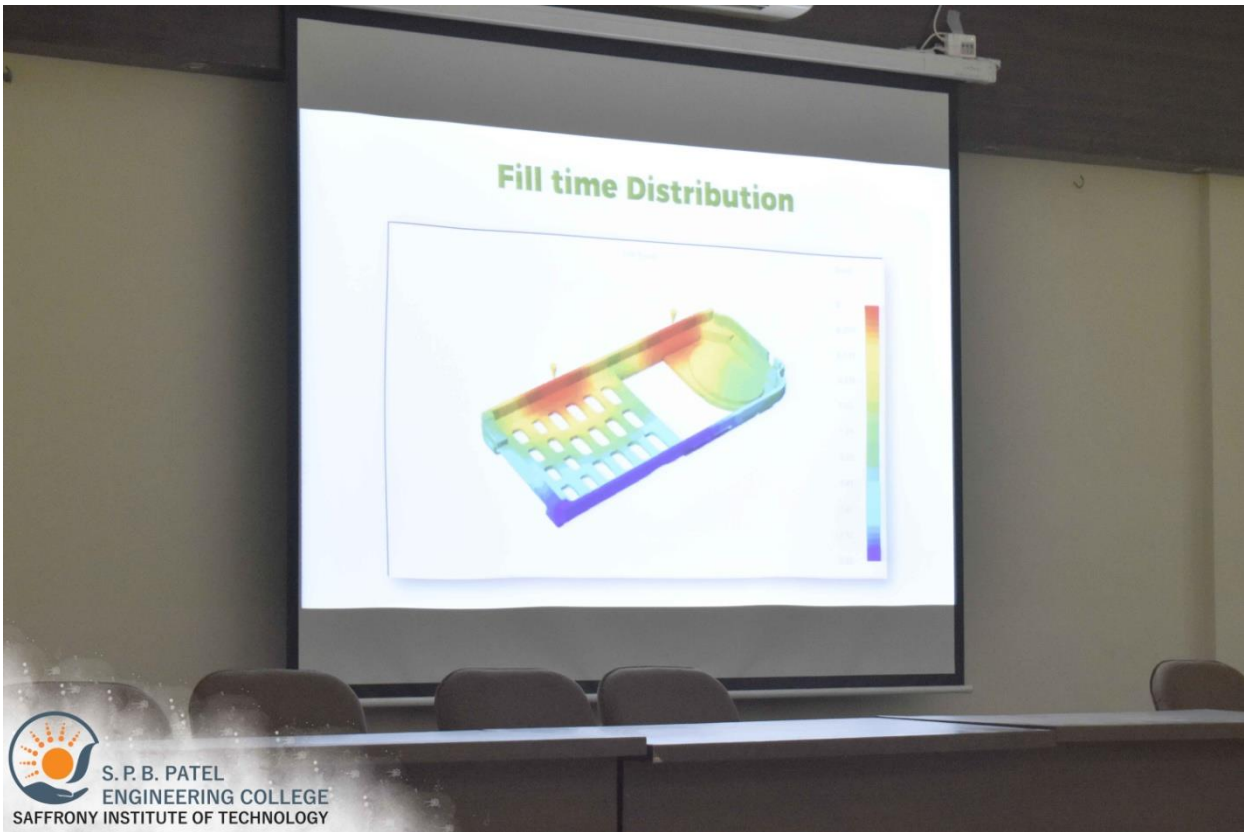
The session ended with a vote of thanks from Prof. Kamlesh Samadhiya.

Session at Glance





 S. P. B. PATEL
ENGINEERING COLLEGE
SAFFRONY INSTITUTE OF TECHNOLOGY



 S. P. B. PATEL
ENGINEERING COLLEGE
SAFFRONY INSTITUTE OF TECHNOLOGY





**S. P. B. PATEL
ENGINEERING COLLEGE
SAFFRONY INSTITUTE OF TECHNOLOGY**



**S. P. B. PATEL
ENGINEERING COLLEGE**
SAFFRONY INSTITUTE OF TECHNOLOGY CAMPUS

30, 31Dec 2020

Report on
EXPERT LECTURE ON
BASIC ENGINEERING DRAWING
SESSION-1 & 2

Prepared By:
Prof. Nikunj Patel
Mech. Engg. Department

Report on expert lecture on Basic Engg Drawing

Name of Participant: Students of 1st sem of auto,mech,civil students

Role: Coordinator

Name of Resource Person: Prof. Bhupendra Bhatt

Organized by: Saffrony Institute of Technology

Date: 30,31 Dec 2020

Duration: 03 pm to 4 pm

Venue: Google meet Online Meeting Application

No. of Participants: Approx 60 students

Introduction and Objective:

It is said experience cannot be earned. The experience of prof. Bhupendra sir in some subject is more than 15 years. So we should gain knowledge through his experience and student can also be benefited with it. The objective of the expert lecture is to acquire knowledge through highly qualified and experienced teacher and can get a chance to induct the knowledge.

Workshop details:

The Heading of the webinar is “The projection of point and line”

The webinar started with an introductory speech of Prof. Bhupendra Bhatt.

Mr. Bhatt shared some slide about key point and definition of projection and use of it in practical engineering field.

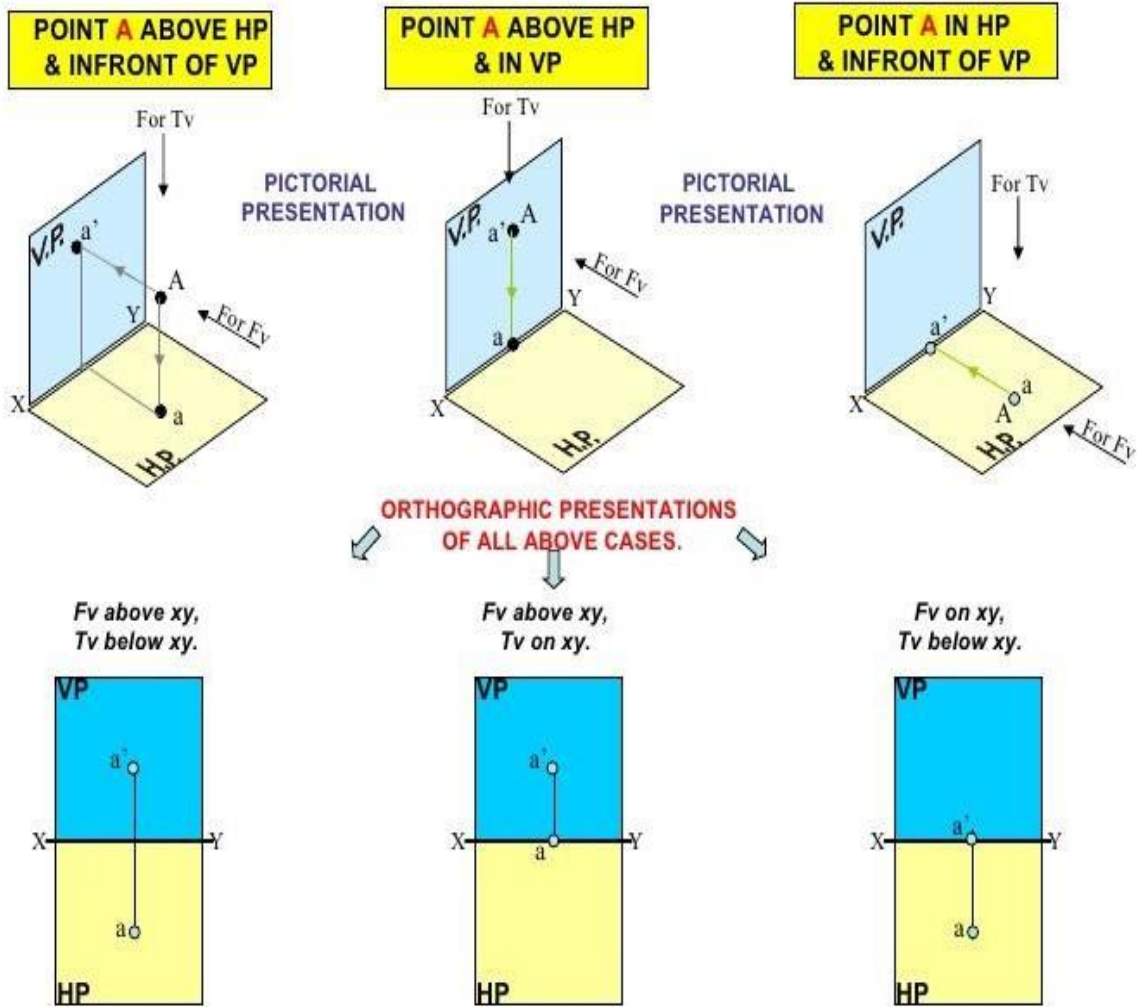
Definition of projection: Projection of Lines • A straight line is the shortest distance between two points. • Top views of two end points of a straight line, when joined, give the top view of the straight line. • Front views of the two end points of a straight line, when joined, give the front view of the straight line.

The projection of a point is its shadow on the paper sheet. The shadow of a point on the paper sheet is this point itself (identity). The projection parallel to a direction D, onto a plane or parallel projection: The image of a point P is the intersection with the plane of the line parallel to D passing through P

APPLICATION OF PROJECTION OF POINT AND LINE.

It is one of the most critical operations in computer aided geometric design and applications, and efficient and robust computation of orthogonal projection is essential for various operations such as computation of closest point (foot-point) on a curve or a surface, parameter estimation of a point in space

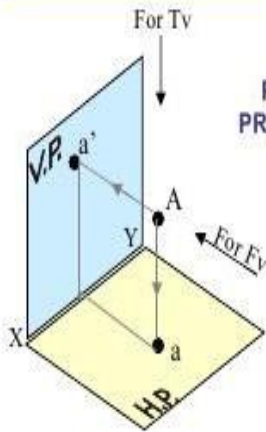
PROJECTIONS OF A POINT IN FIRST QUADRANT.



PROJECTIONS OF A POINT IN FIRST QUADRANT.

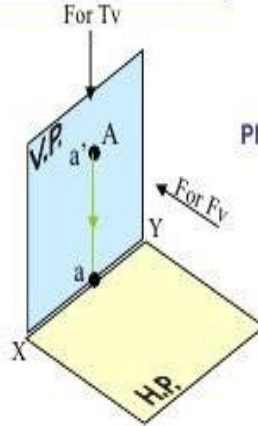


POINT A ABOVE HP & INFRONT OF VP



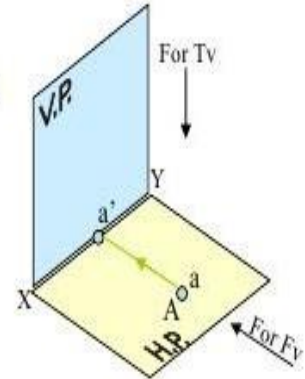
PICTORIAL PRESENTATION

POINT A ABOVE HP & IN VP



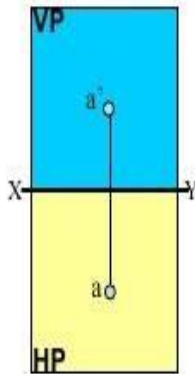
PICTORIAL PRESENTATION

POINT A IN HP & INFRONT OF VP

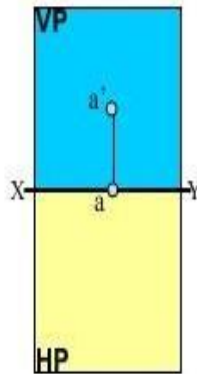


ORTHOGRAPHIC PRESENTATIONS OF ALL ABOVE CASES.

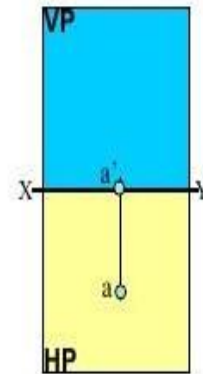
*Fv above xy,
Tv below xy.*



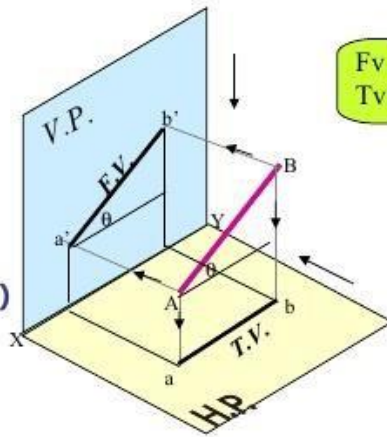
*Fv above xy,
Tv on xy.*



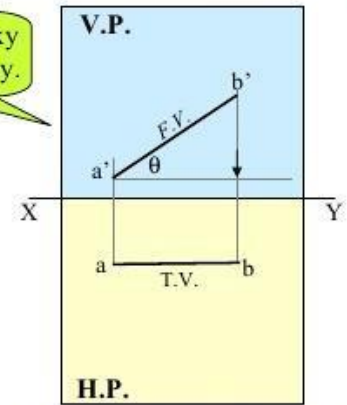
*Fv on xy,
Tv below xy.*



3.
A Line inclined to Hp
and
parallel to Vp
(Pictorial presentation)

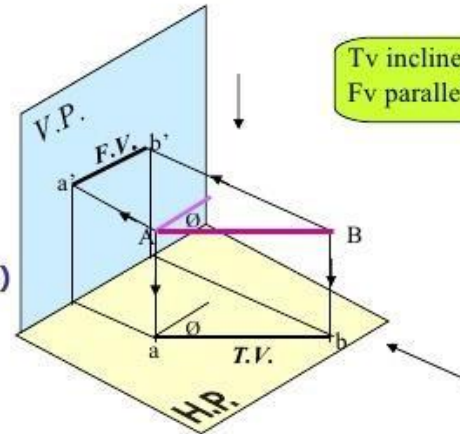


Fv inclined to xy
Tv parallel to xy.

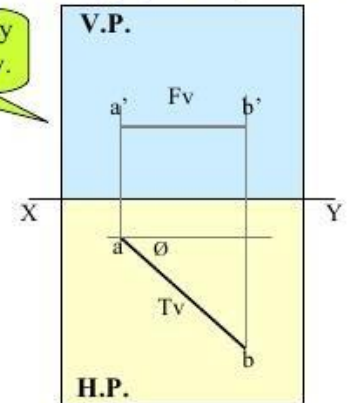


Orthographic Projections

4.
A Line inclined to Vp
and
parallel to Hp
(Pictorial presentation)



Tv inclined to xy
Fv parallel to xy.



At last, workshop session is done (question answer session) Prof. Bhatt sir gives a closing speech at the end of webinar.

I am very much thankful to Prof. M.A. Patel (Principal) & college management for granting me permission to coordinate this webinar which helped me to nurture my skills in teaching and also different methods to use in my classroom for students and it will help a student a lot.

Plan of Action:

I will try to focus on exploring all new process and objective of education which will help me as well as students as well.

Yours Sincerely,

Asst. Prof. Nikunj Patel
Lecturer, Mech. Engg. Department

Approved By
Prof. Ramprakash Inani
HoD of Mechanical Engg. Department



**S. P. B. PATEL
ENGINEERING COLLEGE**
SAFFRONY INSTITUTE OF TECHNOLOGY CAMPUS

19th December 2020

Report of
Expert Lecture
Basics of Trigonometry

Dr. Amisha Patel
(Assistant Professor - Humanities & Sciences
Department-Nirma University)

Prepared by:
Prof. Mehul Patel
Humanities & Sciences
Department



**S. P. B. PATEL
ENGINEERING COLLEGE**

SAFFRONY INSTITUTE OF TECHNOLOGY CAMPUS

Report on Expert Lecture- Mathematics

Name of Participant: Prof. Mehul Patel (Humanities & Sciences Department)

Role: Coordinator

Name of Resource Person: Dr. Amisha Patel

Designation and Institute details: Asst. Prof.-Humanities & Sciences Department (Nirma University)

Organized by: Saffrony Institute of Technology

Date: 19th December 2020

Duration: 10:30 am to 11:30 am

Venue: Google Meet Online Meeting Application

No. of Participants: Approx. 54 students of sem-1 Mechanical, Civil and Automobile Branch

Introduction and Objective:

The objective of the expert lecture was students understand the fundamental of trigonometry and application of it.

Workshop details:

An online expert lecture of 1st Semester on 19/12/2020 (Saturday) organized by S. P. B. Patel Engineering College

The event was moderated by Prof. Mehul V. Patel (Head- H & Sc.) & Parixit Pandya (H & Sc.). The topic of the expert lecture was “**Basics of Trigonometry**”. The objective of the expert lecture was students understand the fundamental of trigonometry and application of it.

The expert lecture started with the introductory of expert Dr. Amisha Patel (Asst. Prof. – Nirma University) by Prof. Parixit Pandya (H & Sc.). Prof. Mehul Patel, other faculty members and students welcomes the Speaker.

The speech of highly experienced Dr. Amisha Patel gave an illustrative presentation about the basic of Trigonometry. The students get the application of trigonometry in engineering, fundamental concept of trigonometry such as radian, degree and conversation between them, also concept of unit circle.

It was very appreciated by students as complete session was full of ideas about how to implement our thoughts from drawings to ground.

Total 54 students & faculty members attended the expert lecture.

The students asked different types of questions related to the topic. Outcome of the lecture was students were able to convert angle from degree to radian and radian to degree. The realized various applications of trigonometry in real life.

Students were very happy to get a chance to interact with Dr. Amisha Patel followed by a doubt clearing session. They also thank Department for organizing such an informative talk.

At the end, faculty members and Students appreciate the speaker & Prof. Parixit Pandya gave a vote of thank on behalf of institute.

Yours Sincerely,

Prof. Mehul Patel
HoD H & Sc., Lecturer, Humanities & Sciences Department

Approved By
Prof. M. A. Patel
Principal

← → ↻ 🏠 <https://meet.google.com/kcp-hawx-pke> ... 📄 ⌵ ⌵ ⌵

Expert lecture for the first semes... X

👤 People (48) Chat

IN CALL

- mehul patel (You)
- akshay mistri
- arjav patel
- arpan panchal
- bansi patel
- bhavik solanki
- bhavy patel
- darshin varma
- datt darji

11:21 AM 12/19/2020

← → ↻ 🏠 <https://meet.google.com/kcp-hawx-pke> ... 📄 ⌵ ⌵ ⌵

Dr. Amisha Patel is presenting

3

Application Of Trigonometry

The word *trigonometry* comes from the Greek words *trigonon* ("triangle") and *metron* ("to measure").

- ❖ **Architecture and Engineering:** To determines the length of cables, the height of support towers, the angle between the two when weight loads and bridge strength
- ❖ **Music Theory and Production :** Sound waves travel in a repeating wave pattern, which can be represented graphically by sine and cosine functions. It also allows sound engineers to visualize sound waves so that they can adjust volume, pitch and other elements to create the desired sound effects

Trigonometry (Basics) 19-12-2020

Dr. Amisha P... aryan patel parixit pandya rahulji thakor maharsh nay... rudra patel bansi patel

Expert lecture for the first semes... X

👤 People (54) Chat

IN CALL

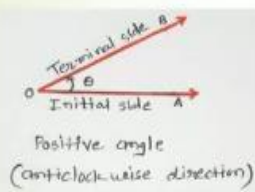
- mehul patel (You)
- akshay mistri
- arjav patel
- arpan panchal
- aryan patel
- bansi patel
- bhavik solanki
- bhavy patel
- darshin varma

10:38 AM 12/19/2020

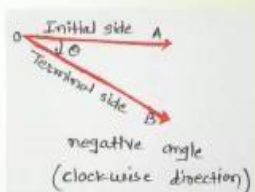
Dr. Amisha Patel is presenting

5 Angles in Degrees and Radians

The measure of an angle is the amount of rotation performed to get the terminal side from the initial side



Positive angle
(anticlockwise direction)



negative angle
(clockwise direction)

Note: Two measurement of an angle which are most commonly used: degree and radian

Trigonometry (Basics) 19-12-2020

People (54) Chat

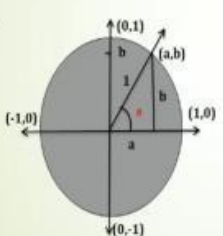
- NIRAV VAJA
- risarg prajapati
- nishil suthar
- parixit pandya
- prem prajapati
- priyanshi nayi
- rahul sharma
- rahulji thakor
- rudra patel
- rudra prajapati

10:40 AM 12/19/2020

Dr. Amisha Patel is presenting

14 Unit Circle

A circle having a radius 1 is call unit circle



We need our soh cah toa definitions

$$\cos \theta = \frac{\text{length of an adjacent side}}{\text{length of hypotenuse}} = \frac{a}{1} = a$$

$$\sin \theta = \frac{\text{length of an opposite side}}{\text{length of hypotenuse}} = \frac{b}{1} = b$$

$\therefore (a, b) = (\cos \theta, \sin \theta)$

Trigonometry (Basics) 19-12-2020

People (52) Chat

IN CALL

- mehul patel (You)
- akshay mistri
- arjav patel
- arpan panchal
- aryan patel
- bansil patel
- bhavik solanki
- bhavy patel
- darshin varma

11:01 AM 12/19/2020



**S. P. B. PATEL
ENGINEERING COLLEGE**
SAFFRONY INSTITUTE OF TECHNOLOGY CAMPUS

16 Jan 2021

Report on
EXPERT LECTURE
ON
APPLIED MECHANICS

Prepared By:
Prof. Bishikeshan Das
Mech. Engg. Department



**S. P. B. PATEL
ENGINEERING COLLEGE**
SAFFRONY INSTITUTE OF TECHNOLOGY CAMPUS

Report on Expert Lecture on Applied Mechanics

Name of Participant: Auto mobile 1st sem students (Mech. Engg. Department)

Role: Coordinator

Name of Resource Person: Prof. Dharmendra Kandoi

Organized by: Saffrony Institute of Technology

Date: 23 Jan 2021

Duration: 9.30 am to 11.00 am

Venue: Google meet Online Meeting Application

No. of Participants: Approx. 10 students

Introduction and Objective:

Our mind always wants new things. It gets bored with the same thing or person also it can receive more by new method and process. So the objective of this expert lecture is to provide conceptual knowledge and to clear students doubt in a convincing way which will help them to interact with outside faculty and also in exam.

Workshop details:

The Heading of the webinar is “coplanar concurrent forces”

The webinar started with an introductory speech of Prof. Dharmendra Kandoi. He started the chapter with the definition and meaning of coplanar, concurrent and their applications. Sir also beautifully explained through 3-D paint. Sir also discuss about parallelogram law of forces, super position of forces, Lami's theorem and also applications .

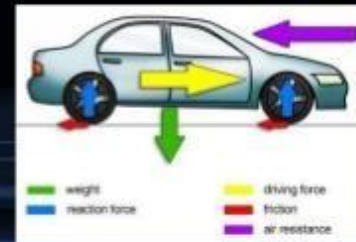
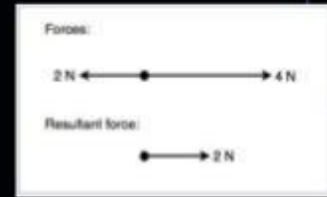
Prof. Kandoi sir shared some slide about key point and application of forces in our day to day life which was so attractive.

We can list out some key points that come across when attended this webinar

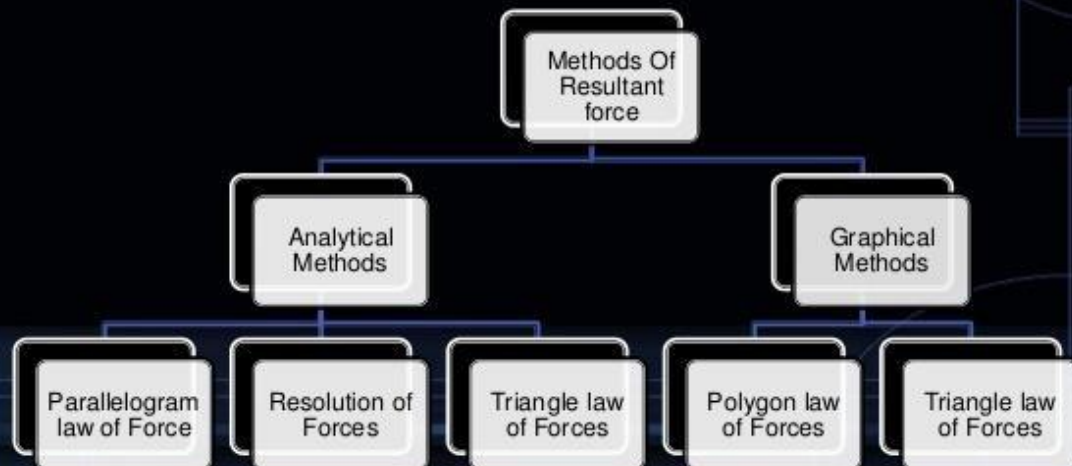
1. what is coplanar
2. what is collinear
3. parallelogram law of forces
4. Lami's theorem

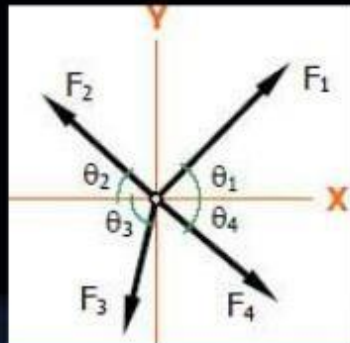
RESULTANT OF COPLANAR CONCURRENT FORCES SYSTEM :-

- A **resultant force** is the single **force** and associated torque obtained by combining a system of **forces** and torques acting on a rigid body.
- The defining feature of a **resultant force** is that it has the same effect on the rigid body as the other original system of **forces**.

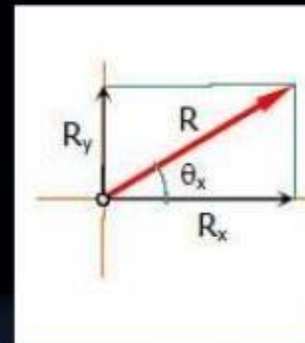


The Methods to find out Resultant Force :-





Space Diagram

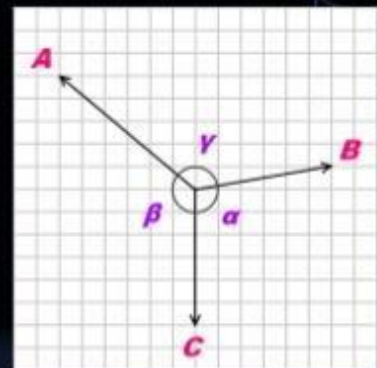


Vector Diagram

LAMI'S THEOREM : -

- If three coplanar forces acting at a point be in equilibrium , then each force is proportional to the sine of angle between other two sides.
- Applying Lami's theorem on given figure, we have;

$$\frac{A}{\sin \alpha} = \frac{B}{\sin \beta} = \frac{C}{\sin \gamma}$$



At last, Prof. Dharmendra Kandoi sir gives a closing speech at the end of the webinar.

I am very much thankful to Prof. M.A. Patel & college management for granting permission to coordinate this webinar which helped me to nurture my skills and also for students for developing their knowledge.

Plan of Action:

I will try to focus on exploring all new processes and objectives of application of forces which will help me as well as students as well.

Yours Sincerely,

Asst. Prof. Bishikeshan Das
Lecturer, Mech. Engg. Department

Approved By
Prof. Ramprakash Inani
HoD of Mechanical Engg. Department



**S. P. B. PATEL
ENGINEERING COLLEGE**

SAFFRONY INSTITUTE OF TECHNOLOGY CAMPUS

7th July 2021

Report of
Expert Lecture
How to Develop Self Confidence

Maitrey Diwan
(Trainer – Soft skills)

Prepared by:
Prof. Parixit C. Pandya
Diploma Humanities & Sciences
Department



**S. P. B. PATEL
ENGINEERING COLLEGE**
SAFFRONY INSTITUTE OF TECHNOLOGY CAMPUS

Expert Lecture- How to Develop Self Confidence

Name of Participant: Prof. Parixit C. Pandya (Humanities & Sciences Department)

Role: Coordinator

Name of Resource Person: Maitrey Diwan

Designation and Institute details: Trainer – Soft skills

Organized by: Saffrony Institute of Technology

Date: 7th July 2021

Duration: 10:30 am to 12:10 am

Venue: Google Meet Online Meeting Application

No. of Participants: Approx. 54 students of sem-2 Mechanical, Civil and Automobile Branch

Introduction and Objective:

Build **self-esteem** by discovering their unique abilities and characteristics. Develop positive attitudes toward school and toward lifelong learning. Recognize the role of the individual in the global community. Develop an awareness of and sensitivity to issues of cultural and gender equity.

Workshop details:

An online expert lecture of 2nd Semester on 07/07/2021 (Wednesday) organized by S.P.B.Patel Engineering College.

The event was moderated by Prof. Parixit Pandya (H & Sc.). The topic of the expert lecture was **“How to Develop Self confidence”**. The objective of the expert lecture was students understand their unique abilities and characteristics.

The expert lecture started with the introductory of expert Maitrey Diwan (Trainer – Soft skills) by Prof. Parixit Pandya welcomes the Speaker.

The speech of highly experienced Maitrey Mam gave an illustrative presentation about the how to develop soft skills. The main focus of this record work is on **understanding** the physical, mental, emotional and spiritual. The main **objective** is to understand meaning, importance and various factors related to **self** concept and **self** esteem. It was very appreciated by students as complete session was full of ideas about how to implement our thoughts from drawings to ground.

Total 54 students & faculty members attended the expert lecture.

The students asked different types of questions related to the topic. Outcome of the lecture was students were able to know **Self confidence lesson**. Helping young people identify the feelings experienced when facing and overcoming a challenge, such as adapting to big changes or new

ways of learning and working, can be an important step to recognising the benefits of successfully tackling challenges in the workplace.

Students were very happy to get a chance to interact with Maitrey Mam session. They also thank Department for organizing such an informative talk.

At the end, faculty members and Students appreciate the speaker & Prof. Parixit Pandya gave a vote of thank on behalf of institute.

Yours Sincerely,

Prof. Parixit C. Pandya
Lecturer, Humanities & Sciences Department

Approved By
Prof. M. A. Patel
Principal



**S. P. B. PATEL
ENGINEERING COLLEGE**

SAFFRONY INSTITUTE OF TECHNOLOGY CAMPUS

1st July 2021

**Report of
Expert Lecture**

Prof. Mehul Patel
(Head,
Humanities & Sciences Department,
S.P.B. Patel Engineering College)

**Prepared by:
Prof. Mehul Patel**
Humanities & Sciences Department



**S. P. B. PATEL
ENGINEERING COLLEGE
SAFFRONY INSTITUTE OF TECHNOLOGY CAMPUS**

Expert Lecture- Mathematics

Name of Resource Person: Prof. Mehul Patel

Designation and Institute details: Head, S.P.B. Patel Engineering College

Date: 1st July, 2021

Duration: 10:00 am to 11:00 am

Venue: Google Meet- Online

No. of Participants: 31 students of 5th sem Mechanical & Civil Engineering of the institute

Introduction and Objective:

The purpose of conducting the training program was to educate the students about Time Management. Time management is the process of planning and controlling how much time to spend on specific activities. Good time management enables an individual to complete more in a shorter period of time, lowers stress, and leads to career success.

Workshop details:

An online expert lecture of 5th Semester on 1/7/2021 (Thursday) organized by S.P.B. Patel Engineering College.

The event was moderated by Prof. Mehul V. Patel (Head- H & Sc.). The topic of the expert lecture was “Time Management”.

The expert lecture started with the introduction of expert Prof. Mehul Patel (Lecturer – S.P.B. Patel Engineering College-). Other faculty members and students welcome the Speaker.

The speech of highly experienced Prof. Mehul Patel gave an illustrative presentation about Time Management. He shared the brilliance of Time Management and taught a few tricks to the students.

He gave various examples and in hand practice to the students to grasp the tricks spontaneously. Students showed keen interest in the knowledge imparted by Prof. Mehul Patel and participated in the expert lecture with zeal and enthusiasm.

Total 31 students & faculty members attended the expert lecture.

The students asked different types of questions related to the topic. Outcome of the lecture was students able to crack uncomplicated problem-solving methods for difficult arithmetic problems and large sums.

Students were very happy to get a chance to interact with Prof. Mehul Patel followed by a doubt clearing session. They also thank Department for organizing such an informative talk.

At the end, faculty members and Students appreciate the speaker.

Yours Sincerely,

Prof. Mehul Patel
HoD H & Sc., Lecturer, Humanities & Sciences Department

Approved By
Prof. M. A. Patel
Principal



S.P.B. Patel Engineering College
Civil Engineering Department
Expert Session on
“Hyperloop One – Design- Issues and Challenges”

Date: 20th March 2021

Expert; Mr. Harsh Jani, Design Engineer, SAI Systra

Faculty Co-ordinators: Prof Rajat Mishra

The Civil Engineering Department organized an expert session on “Hyperloop One – Design – Issues and Challenges” for all semester students. The date of the expert session was 30th march 2021. The session was delivered by Mr. Harsh Jani, Design Engineer, SAI Systra, Ahmedabad. Mr Jani has been associated with the alignment design of the Virgin Hyperloop One between Mumbai – Pune.

The session started with Mr. Jani giving a brief introduction about the hyperloop technology and its need in present times. He mentioned that Hyperloop is a potential new form of high-speed transportation for the movement of passengers and freight over long distances. The key component of the Hyperloop concept is the use of low-pressure tubes to move vehicles (pods) at speeds rivalling air travel. The adaptation of a low-pressure environment within the tubes minimizes aerodynamic drag (see Figure 1), allowing vehicles (pods) to reach and maintain higher speeds than existing ground-based modes of transportation while using less energy. Like railways, Hyperloop vehicles would operate within a fixed guideway environment but without the wheels that generate significant rolling friction at high speeds. Instead, the vehicles would use magnetic levitation (MagLev) along with electromagnetic (and/or aerodynamic) propulsion to glide along a fixed guideway, similar to existing MagLev technologies.

He discussed about the infrastructure need of the Hyperloop in detail and the challenges faced in providing the alignment. The primary infrastructure feature of the Hyperloop system is a continuous low-pressure tube connecting two locations that would either be installed underground, effectively creating a tunnel, or elevated above ground using pylons. However, in dense urban areas with no suitable corridor, the below surface format (underground solution) would provide an alternative option. The below surface format is less preferable due to the cost of boring/cut and cover construction techniques and potential existing utility conflicts.

The above-ground design allows for easier access maintenance and security, a lower infrastructure footprint relative to most other transport infrastructure installed at-grade, and the potential for increased corridor capacity in congested areas. The travel speeds envisaged will limit the maximum curvature and gradient of the infrastructure alignment, which might limit the number of suitable routes in urban areas. A clear benefit of the pressurized tube, whether constructed underground or elevated, is that it can potentially protect the system from adverse environmental effects, such as flooding or bad weather, and removes the possibility of vegetation or wildlife impeding the path of the vehicles, notionally reducing maintenance costs and the risk

of service disruption along the corridor. There was a challenge in the construction of Hyperloop infrastructure underground as the high speed of travel coupled with the long, continuous tube structure can result in a high damaging vibrations.

Mr. Jani also discussed in short about the various social and political challenges, propulsion technology, cost benefit analysis and the speed and time.

The session was followed by the question and answer session. The participants were full of various questions, as what will be the travel time, what would be the fair, is there really need for such a system. The expert provided the participants with all the answers satisfactorily.

Overall it was a great session and the participants gained enormous learning from the session.

The Department thanked Mr. Harsh Jani for the effort and sparing his valuable time for the benefit of the students.

Report on Language of Money

Date: July 4, 2023

Participants: 300

Conducted by: Dr. Dhiren Parekh

Coordinated by: Dr. Pooja Mehta

As part of the 'Let's Celebrate Life' initiative, Saffrony Institute of Technology organized the event "Language of Money" on July 4, 2023. This initiative, led by finance expert Dr. Dhiren Parekh, was designed to nurture students' financial literacy and empower them with essential financial acumen.

Event Highlights:

- Expert Facilitation: Dr. Dhiren Parekh, a finance expert, led the session, bringing a wealth of theoretical knowledge and practical application to bridge the gap between academic learning and real-world financial scenarios.
- Financial Literacy Focus: The event focused on imparting financial literacy to the 300 participants, ensuring they gain a comprehensive understanding of the language and concepts associated with money management.
- Disciplined Approach: Dr. Parekh emphasized the importance of a disciplined and informed approach toward personal finance. The program aimed not only to provide theoretical knowledge but also to instill practical skills for effective financial decision-making.
- Empowerment: The session aimed to empower students, equipping them with the necessary tools and knowledge to make informed financial decisions throughout their academic and professional journeys.
- Interactive Learning: The event fostered interactive learning, allowing participants to engage directly with Dr. Parekh, ask questions, and participate in discussions. This dynamic interaction enhanced the overall learning experience.

Outcome:

The "Language of Money" event proved to be a pivotal initiative in nurturing financial literacy among the 300 participants. Dr. Dhiren Parekh's expertise and the interactive nature of the session contributed to a well-rounded educational experience.

Conclusion:

Saffrony Institute of Technology expresses gratitude to Dr. Dhiren Parekh for his valuable contribution to the "Language of Money" event. The institution remains committed to fostering financial literacy and ensuring students are well-prepared for the financial challenges and decisions they may encounter in their academic and professional journeys.

Photographs: