


SARASWATI Education Society's  
**SARASWATI College of Engineering**

Learn Live Achieve and Contribute

Kharghar, Navi Mumbai - 410 210

ACADEMIC YEAR 2019-20 (ODD SEM)

**IITBombayX Courses Report**  
**CS101.1x Basics of Programming &**  
**CS101.2x Object Oriented Programming**

  
Principal  
Saraswati College of Engineering  
Kharghar, Navi Mumbai-410210



Prepared By: Maahi Khemchandani (Course Coordinator)

Date: 09/01/2020

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# SARASWATI College of Engineering

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Kharghar, Navi Mumbai - 410 210.

Academic Year 2019-20 [ODD SEM]

## IITBombayX Courses

On

CS101.1x Basics of Programming

CS101.2x Object Oriented Programming

### INDEX

Sr No.	Description
1	Announcement Mail
2	Permission Letter
3	Announcement for students
4	Registration Manual
5	Registered Participants
6	Meeting with participants Attendance Sheet
7	Feedback
8	Certificates



SCOET IT IS 12019/1737/18/09/2019

SARASWATI Education Group  
**SARASWATI College of Engineering**

LEARN LIVE ACHIEVE AND CONTRIBUTE  
Kharapur, Navi Mumbai - 410 210

Date: 20/08/2019

### NOTICE

We are happy to inform you that Saraswati College of Engineering is providing first level programming course in Computer science on IIT BombayX platform.

The course is offered in two parts:

1. Programming Basics (from August to December 2019)
2. Object Oriented Programming (from August to December 2019)

Upon successful completion of course students will get certificate from IIT Bombay. So all interested students contact to Prof. Maahi Khemchandani (8976735521) for course registration on or before 26<sup>th</sup> August 2019.

*Maahi*

Prof. Maahi Khemchandani  
Course Coordinator

*Vaishali*

Prof. Vaishali Jadhav  
Dean Student Career Development

*Manisha*

Dr. Manisha Deshmukh  
Principal

*Permitted for class to class PR.*

*Manisha*

### Announcement 1

Dear Students,

Greetings from Saraswati College of Engineering!!

We are glad to inform you that first level programming course (CS101x and CS102x) is introduced by IIT Bombay for Remote Center student at free of cost.

For registration go to following manual.

<https://drive.google.com/open?id=0B3OXTjqV5osOSzZozm85TnJ0WFA0bXp6X2QxSEI4WDdyUUFB>

After successful registration kindly fill out your details in following given Google form.

[https://docs.google.com/forms/d/e/1FAIpQLSeHFCU5YwwSkMZr\\_Li1sKz5fqUM8xsnxBTtoAp6y7DrevLqfg/viewform](https://docs.google.com/forms/d/e/1FAIpQLSeHFCU5YwwSkMZr_Li1sKz5fqUM8xsnxBTtoAp6y7DrevLqfg/viewform)

We look forward to your enthusiastic participation.

In case of any query kindly contact to Prof. Maahi Khemchandani (8976735521)

Regards,

Student Career Development and Remote Center Team

### Announcement 2

Greetings of the day!!

Dear students with reference to earlier shared message of first level programming course (CS101x and CS102x) by IIT Bombay we are calling a meeting.

Examination to qualify the course: Online only.

Note: Kindly note that the deadline for submitting all of quizzes, an assignment etc is 24 December 2019, 18:00 UTC. If you pass this course with percentage more than 40%, you will earn your certificate after 10 days of completion of course.

Registration and Examination Fees: NIL

Agenda of the meeting: How to register and qualify First Level Programming Course CS101x and CS102x of IIT Bombay.

Date: 28 November 2019

Timing: 10:00 AM

Venue: IT Seminar Hall, Fourth Floor, SCOE.

Kindly bring your laptop.

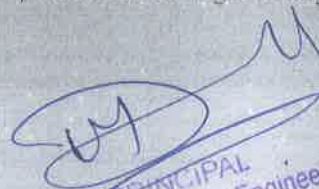
We look forward to your enthusiastic participation.

In case of any query kindly contact to Prof. Maahi Khemchandani (8976735521)

Regards,

Student Career Development and Remote Center Team



  
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Saraswati College of Engineering  
Kharghar, Navi Mumbai-410210

### Announcement 3

Dear all, students who have enrolled for Programming Course CS101.1x and CS101.2x by IIT Bombay X kindly add your number in the group where further discussion regarding course will be done.

<https://chat.whatsapp.com/F5JMcTKk7F85ISUb6sab3h>

We look forward to your enthusiastic participation

Regards,

Maahi Khemchandani.

Dear Students,

We are glad to inform you that Saraswati College of Engineering is providing first level programming course in Computer Science on IIT BombayX platform.

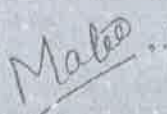
The course is offered in two parts:

Programming Basics (CS101X) starting from Wed, 14 August 2019 till 15 December 2019	Object Oriented Programming (CS102X) from Wed, 21 August 2019 till 15 December 2019
In this part, basic concepts of computer programming are introduced starting with the notion of an algorithm. Emphasis is on developing the ability to write programs to solve practical computational problems. Participants will get to read and understand many sample programs, and will have to write several on their own. Knowledge of high school Mathematics is essential and adequate. Exposure to pre-calculus is desirable.	Go beyond the basics of programming to understand object-oriented methodology, the approach to modular and reusable software systems. Knowledge of high school mathematics is essential and adequate. Exposure to pre-calculus is desirable. Knowledge of basic programming concepts, as covered in 'Programming Basics' course is necessary.
Topics include: - Algorithms - Elements of C/C++ programming languages - Basic data types - Sequential and conditional execution - Iterative solutions - Arrays, matrices and their applications - Functions - Sorting and searching - Elements of string processing - Introduction to pointers - Basics of Software Engineering - Structures - File Processing	Topics Covered - Introduction to Object Oriented Programming - Classes and Methods - Polymorphism - Inheritance - Standard Library of C++


Your performance in this courses will be based on the Graded Quizzes (30% - MCQs), Graded Programming Assignments (30% - program submissions), and Final Exam (40% - MCQs).

We hope that this course benefits you and helps you learn programming.

Regards,

  
Prof. Maahi A. Khemchandani  
Remote Center Head

  
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Kharghar, Navi Mumbai-410210

  
Prof. Vaishali Jadhav  
Dean Student Career Development



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**IITBombayX: CS101.1x Basics of Programming & CS101.2x Object Oriented Programming**  
**List of Registered Students**

Date: 09/01/2020

Sr No.	Name	Email	Department	Class	Courses Completion	Course Grade	
						CS101.1x Programming Basics	CS101.2x Object Oriented Programming
1	Sneha R. Bede	sneha.bedse1399@gmail.com	IT	TE	Both	B	C
2	Neha Gawde	neha931999gawde@gmail.com	IT	BE	Both	A+	A
3	Punitesh Poojary	ppunitesh@gmail.com	Mechanical	TE	Both	A+	A
4	Mohd Sufyan Asghar Kamil	sufyankamil15@gmail.com	Computer engn	SE	Both	80	46
5	Nitesh M Yadav	nitesh.yadav2018@comp.sca.ec	Computer	SE	Both	A+	A
6	Nachiket Jadhav	nachiketjadhav123@yahoo.co.in	Computer	SE	CS101.1x Basic	A	NA
7	Majid Deshmukh		IT	TE	Both	A+	B

*Maloo*

Prof. Maahi A. Khemchandani  
 Course Coordinator-Remote Center Head





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Date: 09/01/2020

Greetings of the Day!!!

We are happy to share result of our students who have appeared for following courses of IIT BombayX.

### Course CS101.1x: Programming Basics

1. Punitesh Poojary (A+ 92%) TE Mech *U/S*
2. Nitesh M Yadav (A+ 91%) SE Comp *A/S*
3. Neha Gawde (A+ 91%) BE IT
4. Majid Deshmukh (A+ 91%) TE IT
5. Nachiket Jadhav (A 89%) SE Comp
6. MdSufyanA.Kamil(A 80%) SE Comp } *+ S*
7. Sneha R. Bede (B 73%) TE IT

### Course CS101.2x: Object-Oriented Programming

1. Neha Gawde (A 86%) BE IT *D/Cat*
2. Nitesh M Yadav (A 83+%) SE Comp *S/C*
3. Punitesh Poojary (A 86%) TE Mech *U/S*
4. Majid Deshmukh (B 73%) TE IT
5. Sneha R. Bede (C 54%) TE IT
6. MdSufyanA.Kamil (C 46%) SE Comp *S/C*

Congratulations to students.

We are sending certificates of qualified students for your records. We look forward to your enthusiastic participation in future for such technical courses.



*Maahi*  
*9/1/20*

Prof. Maahi A. Khemchandani  
Course Coordinator-Remote Center Head

*Vaishali*  
*9-1-2020*

Prof. Vaishali Jadhav  
Dean Student Career Development

*[Signature]*  
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Saraswati College of Engineering  
Kharghar, Navi Mumbai-410210

HONOUR CODE  
CERTIFICATE

Issued: 26 December 2019



**Neha Chandrakant Gawde**

has successfully completed and secured grade A+ in

*CS101.1x: Programming Basics*

an online course conducted from 14 August 2019 to 24 December 2019.

This course is offered by IIT BombayX, an online learning initiative of Indian Institute of Technology Bombay.

*Phatak*

**Deepak B Phatak**  
(Retired) Professor  
Department of Computer Science  
and Engineering, IIT Bombay

*Chakraborty*

**Supratik Chakraborty**  
Professor  
Department of Computer Science  
and Engineering, IIT Bombay

*Karmali*

**Nagesh Karmali**  
Senior Manager (Research)  
Department of Computer Science  
and Engineering, IIT Bombay

*Karmali*

**Firuz Karmali (Albāra)**  
Project Manager  
Department of Computer Science  
and Engineering, IIT Bombay

HONOUR CODE  
CERTIFICATE

Issued: 26 December 2019



IITBXO  
Integrate Learning



**Neha Chandrakant Gawde**

has successfully completed and secured grade A in

CS101:2X Object-Oriented Programming

an online course conducted from 21 August 2019 to 24 December 2019.

This course is offered by IIT BombayX, an online learning initiative of Indian Institute of Technology Bombay.

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**Deepak B Phatak**  
(Retired) Professor  
Department of Computer Science  
and Engineering, IIT Bombay

**Supratik Chakraborty**  
Professor  
Department of Computer Science  
and Engineering, IIT Bombay

**Nagesh Karmali**  
Senior Manager (Research)  
Department of Computer Science  
and Engineering, IIT Bombay

**Firuza Karmali (Albarar)**  
Project Manager  
Department of Computer Science  
and Engineering, IIT Bombay

HONOUR CODE  
CERTIFICATE

Issued: 26 December 2019



**IITB**  
Infinite Learning

**CDEEP**

**Nitesh Mayaram Yadav**

has successfully completed and secured grade A+ in

*CS101, 1X: Programming Basics*

an online course conducted from 14 August 2019 to 24 December 2019.

This course is offered by **IIT BombayX**, an online learning initiative of **Indian Institute of Technology Bombay**.

**Deepak B Phatak**  
(Retired) Professor  
Department of Computer Science  
and Engineering, IIT Bombay

**Supratik Chakraborty**  
Professor  
Department of Computer Science  
and Engineering, IIT Bombay

**Nagesh Karmali**  
Senior Manager (Research)  
Department of Computer Science  
and Engineering, IIT Bombay

**Firuza Karmali (Albara)**  
Project Manager  
Department of Computer Science  
and Engineering, IIT Bombay

# HONOUR CODE CERTIFICATE

Issued: 26 December 2019



# IITBX

Infra Learning

**CDEEP**

## Nitesh Mayaram Yadav

has successfully completed and secured grade A in

*CS101.2x: Object-Oriented Programming*

an online course conducted from 21 August 2019 to 24 December 2019.

This course is offered by **IITBombayX**, an online learning initiative of **Indian Institute of Technology Bombay**.

**Deepak B Phatak**  
(Retired) Professor  
Department of Computer Science  
and Engineering, IIT Bombay

**Supratik Chakraborty**  
Professor  
Department of Computer Science  
and Engineering, IIT Bombay

**Nagesh Karmali**  
Senior Manager (Research)  
Department of Computer Science  
and Engineering, IIT Bombay

**Firuza Karmali (Aibara)**  
Project Manager  
Department of Computer Science  
and Engineering, IIT Bombay

The Honour Code is elaborated in <https://www.iitb.ac.in/iitbx>  
\*Authenticity of this certificate can be verified at <https://certificate.iitb.ac.in/iitbx/learn/2019/12/26/CS101.2x/CS101.2x/5952/certificate.pdf>

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### IITBombayX: CS101.1x & CS101.2x feedback

Thank you for participating in given course

We hope you had gain as much knowledge after completion of it

We want to hear your feedback so we can keep improving our organization

Please fill this quick survey and let us know your thoughts (your answers will be anonymous).

\* Required

How satisfied were you with the Courses? \*

	1	2	3	4	5	
Not very	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very much

How relevant and helpful do you think it was for your logical and programming skills? \*

	1	2	3	4	5	
Not very	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very much

What were your key take away from this course?

Your answer:

How satisfied were you with the announcement made by Course Management Team of SCOE? \*

1 = very dissatisfied 5 = very satisfied

	1	2	3	4	5	N/A
Communication Messages for announcements at Course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Course Support by Affiliated Teacher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Follow Up taken to complete course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Additional feedback on conduction of Course

Your answer:

Which Course did you find most relevant? \*

	Not relevant	Relevant	Very relevant
CS101.1x Programming Basics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CS101.2x Object Oriented Programming	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Both	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## IITBombayX: CS101.1x & CS101.2x feedback

How satisfied were you with the Support for Course from SCOE Course Management team?

Both presented and pre-read material

	1	2	3	4	5	
Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

Any overall feedback for the course?

Your answer

Name (optional)

Your answer

Submit

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**ITTBombayX: CS101.1x Basics of Programming & CS101.2x Object Oriented Programming Feedback**

Date: 09/01/2020

Q. Questions	Feedback					AVG
1 How satisfied were you with the Courses?	3	5	5	4	5	4
2 How relevant and helpful do you think it was for your logical and programming skills?	4	5	5	4	5	4.5
3 What were your key take away from this course?					My basics are more stronger than ever it was	
4 How satisfied were you with the announcement made by Course Management Team of SCOEE?	4	4	3	4	4	4
Communication Messages for Announcement of Course	5	4	4	4	4	4.33
Course Support by Allotted Teacher	4	3	4	4	4	4
5 Follow UP taken to complete course					Good	
Additional feedback on conduction of Course					If I had more time to solve and concentrate on the course	
6 Which Course did you find most relevant?						
[CS101.1x Programming Basics]	Relevant	Very relevant	Very relevant	Relevant	Very relevant	Very relevant
[CS101.2x Object Oriented Programming]	Relevant	Very relevant	Very relevant	Very relevant	Very relevant	Very relevant
[Both]	Relevant	Very relevant	Very relevant	Relevant	Very relevant	Very relevant
8 How satisfied were you with the Support for Course from SCOEE Course Management team?	5	4	5	4	5	4.67
9 Any overall feedback for the course?					Excellent	
# Name (optional)		Sufyan	Neha Gawde	Punitesh Poojary		
<b>Overall Feedback</b>						4.31

Prof. Maahi K. Khemchandani  
 Course Coordinator-Remote Center Head  
 9 1120

Prof. Vaishali Jadhav  
 Dean Student Career Development

Dr. Manjusha Deshmukh  
 Principal





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**ACADEMIC YEAR 2018-19 (ODD SEM)**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

Date: 10/08/2018

**NOTICE**

All the students of Third year are informed that a Seminar on "Angular" is organized on 16/8/2018.

*Kakde*  
10/8/18

Mrs. Pranal Kakde  
Seminar Coordinator

*Vaishali*  
10-8-18

Prof. Vaishali Jadhav  
HOD (IT)

*Principal*  
PRINCIPAL  
Saraswati College of Engineering  
Kharghar, Navi Mumbai - 410210





## SEMINAR REPORT

Event Name: Technical Seminar on "*Angular*"

Date: 16<sup>th</sup> August, 2018

Venue: Seminar Hall of CSE Department

### Resource Persons/Speakers:

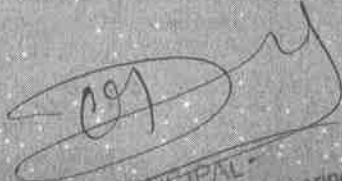
Mr. Tejas Kasare- Intellect Technologies

### Workshop Objectives:

- Prepare students to understand importance Angular Technology.
- Setup a Programming Environment for Angular.
- Preparing Third year student to make their career Project by using Angular.
- Students will build Angular form for their project.

No. of Participants: 63



  
P. R. J. P. A. L.  
Saraswati College of Engineering  
Kharghar, Navi Mumbai-410210



### Details:

The Department of Information Technology of Saraswati College of Engineering organized a seminar on titled as "ANGULAR" as per planning of academic calendar for the Academic Year 2017-18 ODD Semester. The seminar has been organized for third year students of our department for making them aware about application of .Net and Angular in Industry. Speaker addressed about coding in Unity IDE.

Following activities were held during the Technical Workshop.

- Welcome of Speaker.
- Address by Mr. Tejas Kasare- Intellect Technologies about Virtual Reality & its applications.
- Feedback Form Collection.
- Vote of thanks to Speakers.

### Workshop Outcomes:

After completion of this seminar students are able to apply the technical knowledge and perform specific task like:

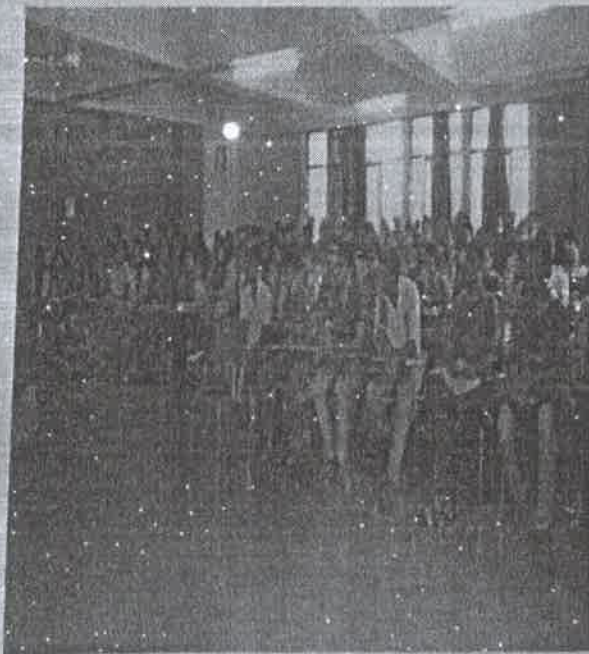
- Understand importance of .Net and Angular from career point of view.
- Practically learned about how to develop a Angular form.
- Learn how to code using Script Language.

  
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Photos:



*(Handwritten signature)*

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**DEPARTMENT OF INFORMATION TECHNOLOGY**

**REPORT ON**  
**Seminar on IOT for Waste Management**  
**(23/08/2018)**


Prepared By: Ms. Ragini Sharma/Ms Kirti Mhamunkar

Received By: Prof. Vaishali Jadhav (HOD – IT Department)

Date: 24-08-2018

Venue: Seminar Hall



  
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## Summary Report

Event Name: "Seminar on IOT for Waste Management"

Duration: 2 hrs

Date: 23/08/2018

Class: Third Year

Speaker: Mr. Kiran Marekar (Bee ah environmental, Emirate of Sharjah)

No. of Participants: 61

### Objective:

The objective of this seminar was:

- To get to know new platforms in Internet of Things.
- To help students get acquainted with IOT in the early stage.
- To gain knowledge on various technologies used for IOT.
- To understand the Market opportunities for IOT
- To know about the Implications of IOT for the developing world.
- To be familiar with process of Waste management through IOT
- To demonstrate the benefits of using IOT in cities for furthering the sustainable development goals.

### Outcome:

After the successful completion of lecture students were able to:

- Develop applications in IOT using various technologies.
- Understand, analyze and apply IOT for smart cities and for better and comfort living of human beings.



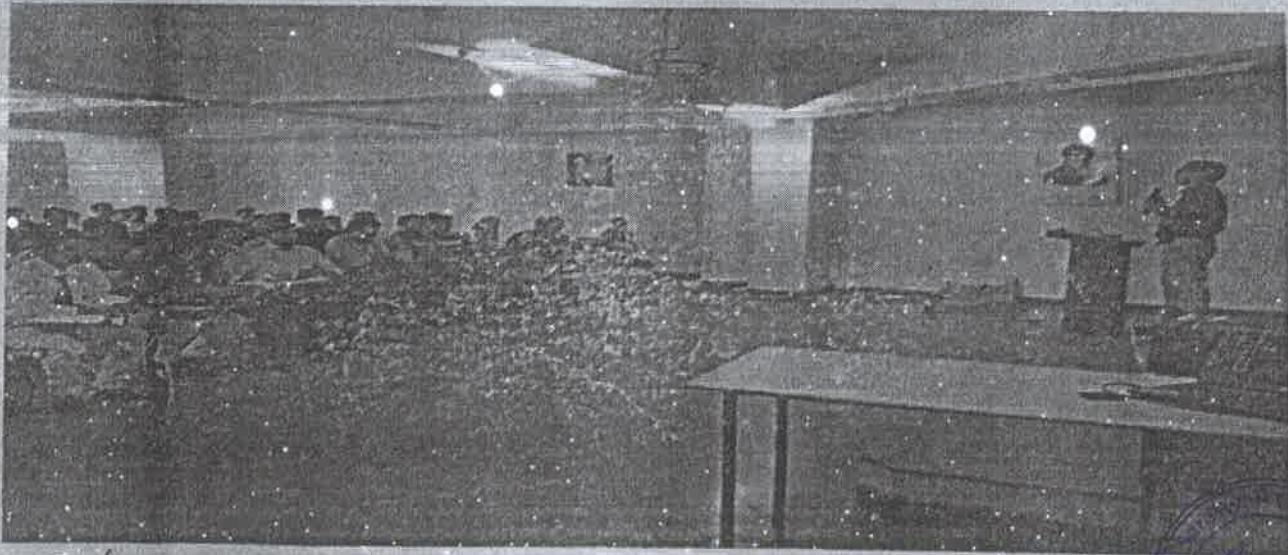
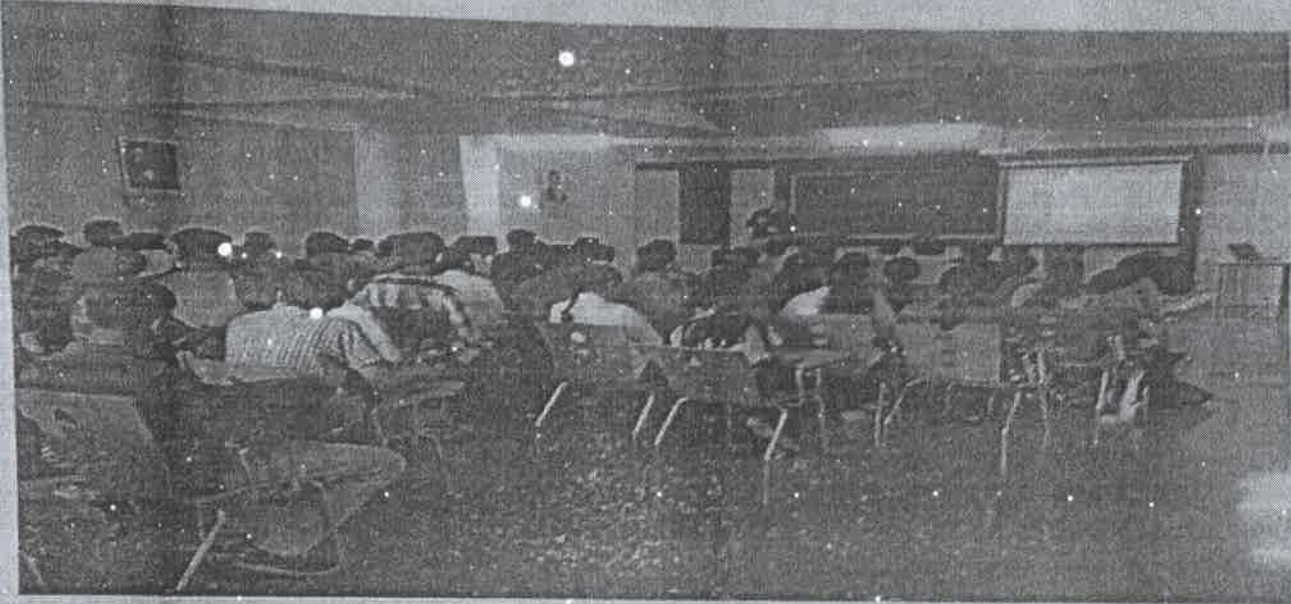
A handwritten signature in black ink, appearing to be "S. D. Y.", written over a horizontal line.

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Marghera, Mumbai - 410210



## Topics Covered:

- Introduction to IOT
- IOT technologies.
- Application Development Platform Overview
- IOT: Solutions and deployment experiences.
- IOT and Smart Cities
- Waste management through IoT



*[Signature]*  
*[Signature]*  
Ms Ragini S/Kirti M.  
Organizers

*[Signature]*  
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*[Signature]*  
Prof. Vaishali Jadhav  
HOD (IT)  
20-8-18



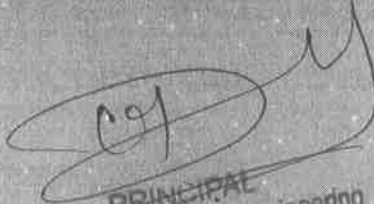


Date: 06<sup>th</sup> Sept 2018

Workshop  
Report on WordPress

- By Mr. Ashish Deshpande  
(Member of CSI)



  
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Kharghar, Mumbai - 400102





# WORDPRESS REPORT

## INTRODUCTION

WordPress is a free content management system used to build and maintain websites. Its ease of use and unique blogging features have helped it become the most popular blogging tool on the web.

WordPress provides a web-based user interface for designing, publishing, and updating websites. Instead of writing HTML, you can simply choose one of many different website Templates or "themes" that has a design you like. You can then modify the layout and build a custom navigation bar. Once the site layout is complete, you can use WordPress' online interface to create individual pages. Each page may include formatted text, links, images, and other media. You can publish completed webpages or blog updates by simply clicking the Publish button.

The WordPress interface makes it easy for anyone without Web development experience to create and publish a website. The built-in blogging tools provide a simple way to track individual posts, visitors, and user comments. If WordPress' built-in capabilities are not sufficient for your needs, you can install different Plug-in that provide extra features. Examples include social media buttons, image galleries, and web-forum tools

## REQUIRED SOFTWARES AND HARDWARE

### HARDWARE

1. LAPTOP

### SOFTWARE

1. WAMP SERVER
2. WORDPRESS ZIP FILE

  
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## BUILD OF WEBSITES

1. We extracted the WordPress zip file, Started the WampServer create a folder in www folder i.e. Project folder that will contain all the files of the project , after extraction of WordPress zip file copy the content of WordPress zip file to the project folder and open the browser and typed the link <http://localhost/project-folder/>. You will have to fill some information which is quite basic, like setting username and password and configured the database.



You are now logged out.

Username or Email Address

Password

Remember Me

Log In

[Lost your password?](#)

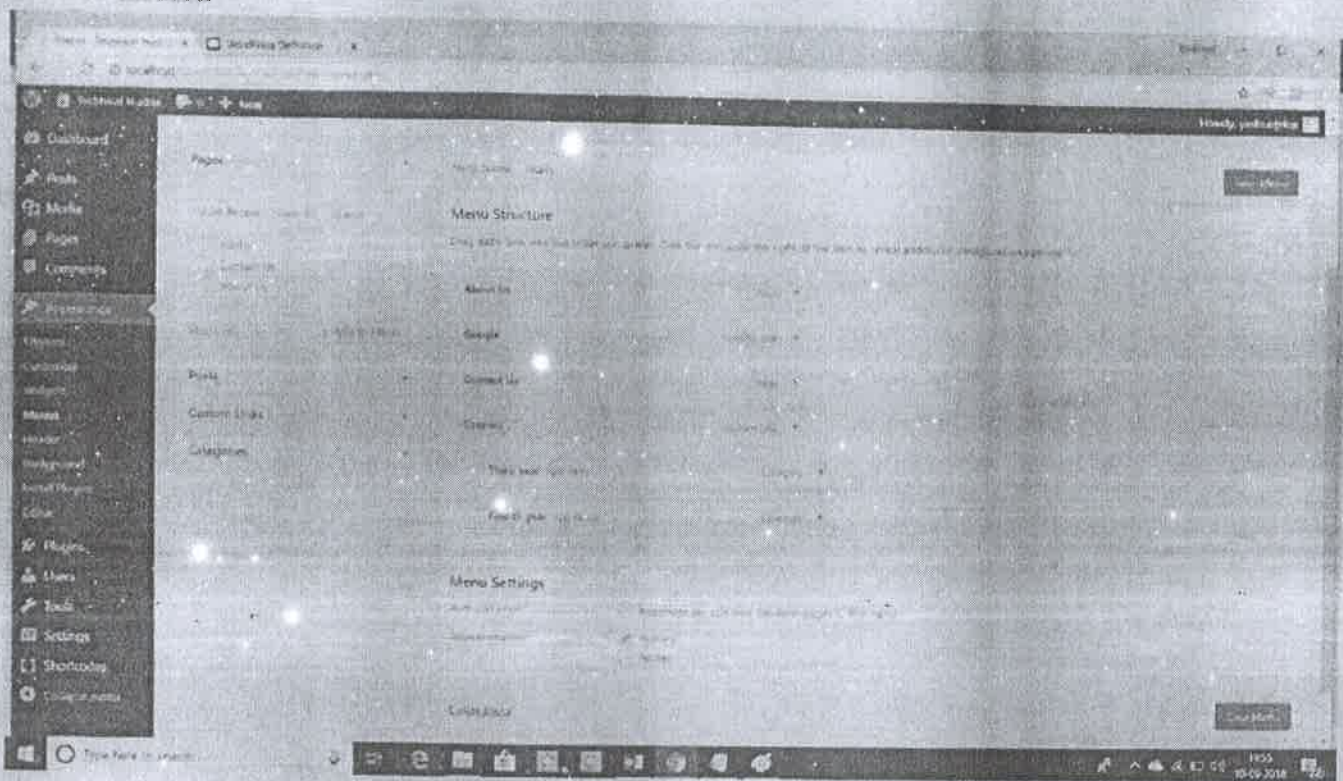
2. When you provide your username and password you will enter into your WordPress dashboard.



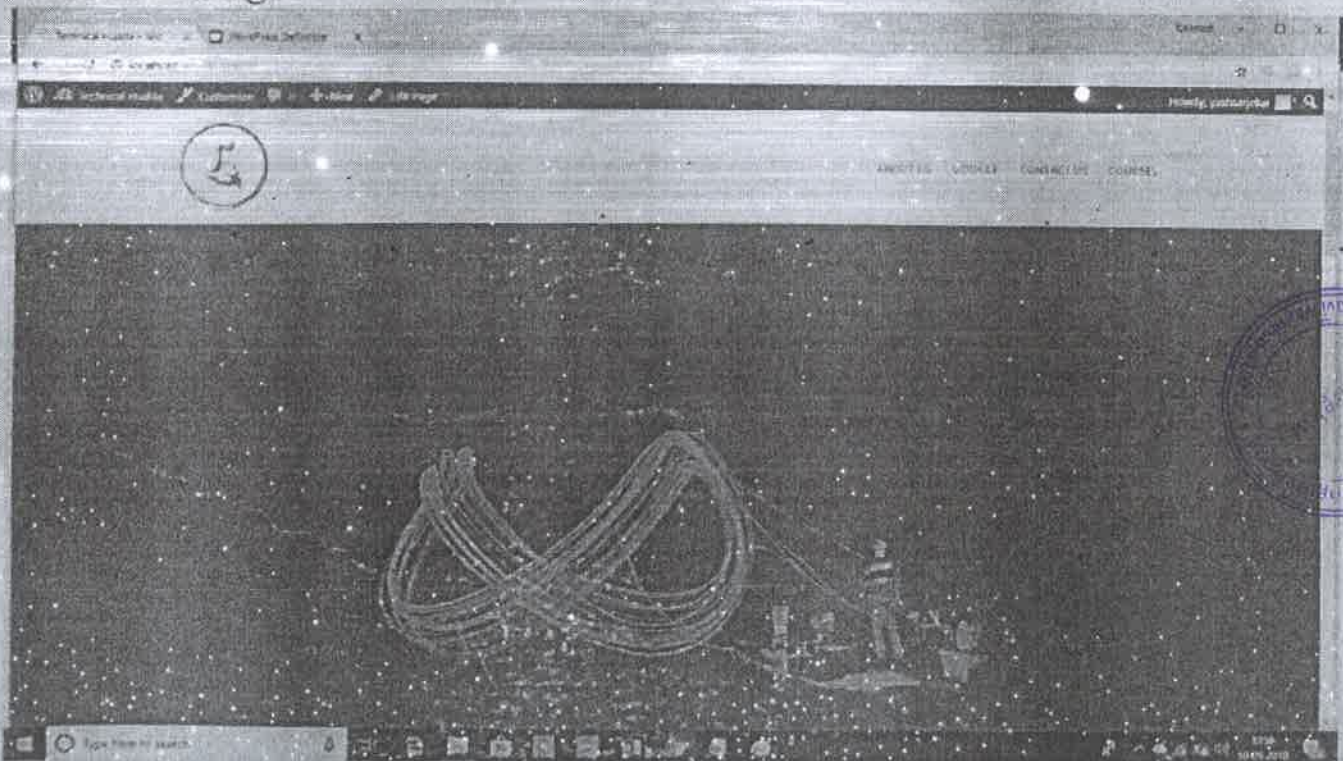
3. In the WordPress dashboard we have change the theme of the website. the theme name of the website "Talon" on that website theme we updated



some parts such as navigation part, logo creating menu , creating sub link of the menu



4. In the fourth step we have created some posts , and pages to make it more effective . the WordPress theme are already mobile friendly i.e. responsive. Here we have used plugins name “Insert Short code” for content editing.



  
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Home

Service title

Sarawati College of Engineering is a premier engineering institution established for the purpose of imparting state of art technical education to newly Exposed engineers of the city. Sarawati College of Engineering is a leading research organization with a dream and vision of creating a knowledge based society. The foundation of Sarawati College of Engineering was laid on 17th September 2004 and since then the college has been growing leaps and bounds. The growth of any worthwhile endeavor, especially in the field of education, requires the able assistance and support of the selfless service and dedication of the people.

RECENT POSTS

- TE 1234335
- TE
- TE

RECENT COMMENTS

Third year

TE 1234335


Third year - September 6, 2018

Sarawati College of Engineering is a premier engineering institution established for the purpose of imparting state of art technical education to newly Exposed engineers of the city. Sarawati College of Engineering is a leading research organization with a dream and vision of creating a knowledge based society. The foundation of Sarawati College of Engineering was laid on 17th September 2004 and since then the college has been growing leaps and bounds. The growth of any worthwhile endeavor, especially in the field of education, requires the able assistance and support of the selfless service and dedication of the people.

TE

Third year - September 6, 2018

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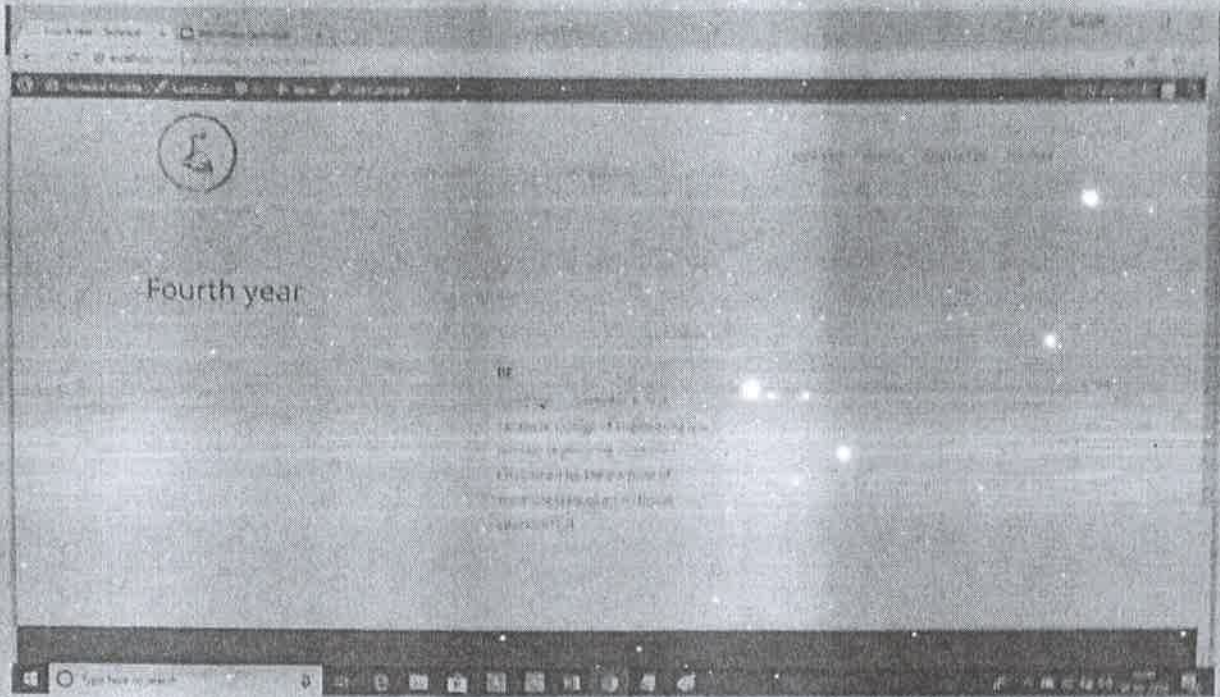


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Conclusion: Thus in this seminar we learn how to create a WordPress website and how to set it using various tools provided by wordpress.

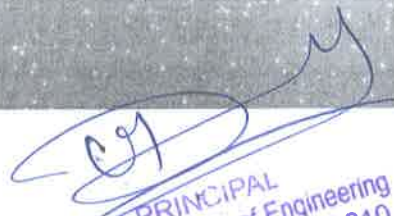


Conducted By  
(Ms. Pragati Pejlekar)  
SAIT



HOD IT  
(Ms. Vaishali Jadhav)



  
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Date: 06<sup>th</sup> Sept 2018

## Seminar on Microsoft Azure

- By Mr. Prasad  
(Member of CSI)



  
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## Microsoft Azure

### Introduction

Microsoft has leveraged its constantly-expanding worldwide network of data centers to create Azure, a cloud platform for building, deploying, and managing services and applications, anywhere. Azure lets you add cloud capabilities to your existing network through its platform as a service (PaaS) model, or entrust Microsoft with all of your computing and network needs with Infrastructure as a Service (IaaS). Either option provides secure, reliable access to your cloud hosted data—one built on Microsoft's proven architecture. Azure provides an ever expanding array of products and services designed to meet all your needs through one convenient, easy to manage platform. Below are just some of the capabilities Microsoft offers through Azure and tips for determining if the Microsoft cloud is the right choice for your organization.

### What can Microsoft Azure Do?

Microsoft maintains a growing directory of Azure services, with more being added all the time. All the elements necessary to build a virtual network and deliver services or applications to a global audience are available, including:

- **Virtual machines.** Create Microsoft or Linux virtual machines (VMs) in just minutes from a wide selection of marketplace templates or from your own custom machine images. These cloud-based VMs will host your apps and services as if they resided in your own data center.
- **SQL databases.** Azure offers managed SQL relational databases, from one to an unlimited number, as a service. This saves you overhead and expenses on hardware, software and the need for in-house expertise.
- **Azure Active Directory Domain services.** Built on the same proven technology as Windows Active Directory, this service for Azure lets you remotely manage group policy, authentication, and everything else. This makes moving and existing security structure partially or totally to the cloud as easy as a few clicks.
- **Application services.** With Azure it's easier than ever to create and globally deploy applications that are compatible on all popular web and portable platforms. Reliable, scalable cloud access lets you respond quickly to your business's ebb and flow, saving time and money. With the introduction of Azure Web Apps to the Azure Marketplace, it's easier than



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ever to manage production, testing and deployment of web applications that scale as quickly as your business. Prebuilt APIs for popular cloud services like Office 365, Salesforce and more greatly accelerate development.


- Visual Studio team services. An add-on service available under Azure, Visual Studio team services offer a complete application lifecycle management (ALM) solution in the Microsoft cloud. Developers can share and track code changes, perform load testing, and deliver applications to production while collaborating in Azure from all over the world. Visual Studio team services simplify development and delivery for large companies or new ones building a service portfolio.
- Storage. Count on Microsoft's global infrastructure to provide safe, highly accessible data storage. With massive scalability and an intelligent pricing structure that lets you store infrequently accessed data at a huge savings, building a safe and cost-effective storage plan is simple in Microsoft Azure.

Why are people trusting their workloads to Microsoft Azure?

It's been said that the on-premise data center has no future. Like mainframes and dial-up modems before them, self-hosted data centers are becoming obsolete, being replaced by increasingly available and affordable cloud solutions. Several important players have emerged in the cloud service sphere, including Amazon Web Services (AWS), perennial computing giant IBM, and Apple's ubiquitous iCloud, which holds the picture memories and song preferences of hundreds of millions of smartphone users, among other data. With so many options, why are companies like 3M, BMW, and GE moving workload to Microsoft Azure? Just some of the reasons:

- Flexibility. With Microsoft Azure you can spin up new services and geometrically scale data storage capabilities on the fly. Compare this to a static data center, which would require new hardware and OS purchasing, provisioning, and deployment before additional power could be brought to bear against your IT challenges. This modern flexibility makes Azure a tempting solution for organizations of any size.
- Cost. Azure solutions don't just make it faster and easier to add and scale infrastructure, they make it cheaper. Physical services and infrastructure devices like routers, load balancers and more quickly add up to thousands or even hundreds of thousands of dollars. Then there's the IT expertise required to run this equipment, which amounts to major payroll overhead. By



  
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leveraging Microsoft's massive infrastructure and expertise, Azure can trim our annual IT budget by head-turning percentages.

- Applications. With a la carte service offerings like Visual Studio Team Services, Visual Studio Application Insights, and Azure's scalable, on-demand storage for both frequently accessed and 'cold' data, Microsoft makes developing and testing mission-critical apps a snap. Move an application from test to production mode on the fly across a globally distributed network. Microsoft also offers substantial licensing discounts for migrating their existing apps to Azure, which represents even more opportunity for savings.
- Disaster recovery. Sometimes the unthinkable becomes the very immediate reality. Another advantage of Microsoft Azure lay in its high-speed and geographically decentralized infrastructure, which creates limitless options for disaster recovery plans. Ensure that your critical application and data can run from redundant sites during recovery periods that last minutes or hours instead of days. Lost time is lost business, and with Azure you can guarantee continuous service delivery even when disaster strikes.

The combination of Microsoft's vast infrastructure, constant application and services development, and powerful presence in the global IT marketplace has made Microsoft Azure solutions the choice of two-thirds of the world's Fortune 500 companies. But the infinite scalability of Azure can make it just as right for your small personal business.

#### Logging capabilities within Microsoft Azure


The secret gold mine of any infrastructure and service solution is ongoing operational and security visibility, and ultimately these comes down to extracting critical log and infrastructure metrics from the application and underlying stack. The lack of this visibility is like flying a plane blind—no one does it. Azure comes with integrated health monitoring and alert capabilities so you can know in an instant if performance issues or outages impacting your business. Set smart alert levels for events from:

- Azure diagnostic infrastructure logs. Get current insights into how your cloud network is performing and take action to resolve slow downs, bottlenecks, or service failures.
- Windows IIS logs. View activity on your virtual web servers and respond to traffic patterns or log-in anomalies with the data Azure gathers on IIS 7.



Pragati  
Conducted BY  
(Ms. Pragati Pejtekaz)  
(SAIT)


  
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HOD (IT Dept)  
(Ms. Vaishali Tadha)

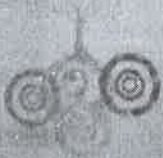


- Crash dumps. Even virtual machines can 'blue screen' and other virtual equipment crashes can majorly disrupt your operations. With Microsoft Azure you can record crash dump data and troubleshoot to avoid repeat problems.
- Custom error logs. Set Azure alerts to inform you about defined error events. This is especially helpful when hosting private applications that generate internal intelligence about operations, so you can add these errors to the health checklist Azure maintains about your network.



  
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### Project Seminar 2018

**Organizing Department:** Information Technology Department and Computer Engineering Department

**Date:** 13 September, 2018

**Speaker:**


Event was honored by presence of Mr. Rajesh Kumar Jain. He has handled more than 10 BRNS projects till now for various research applications. He has published more than 150 papers in various national and international journals. He was deputed to CERN Switzerland, IAEA, Austria and ICTP, Italy.

**Participants:**

All BE students of IT and computer department.

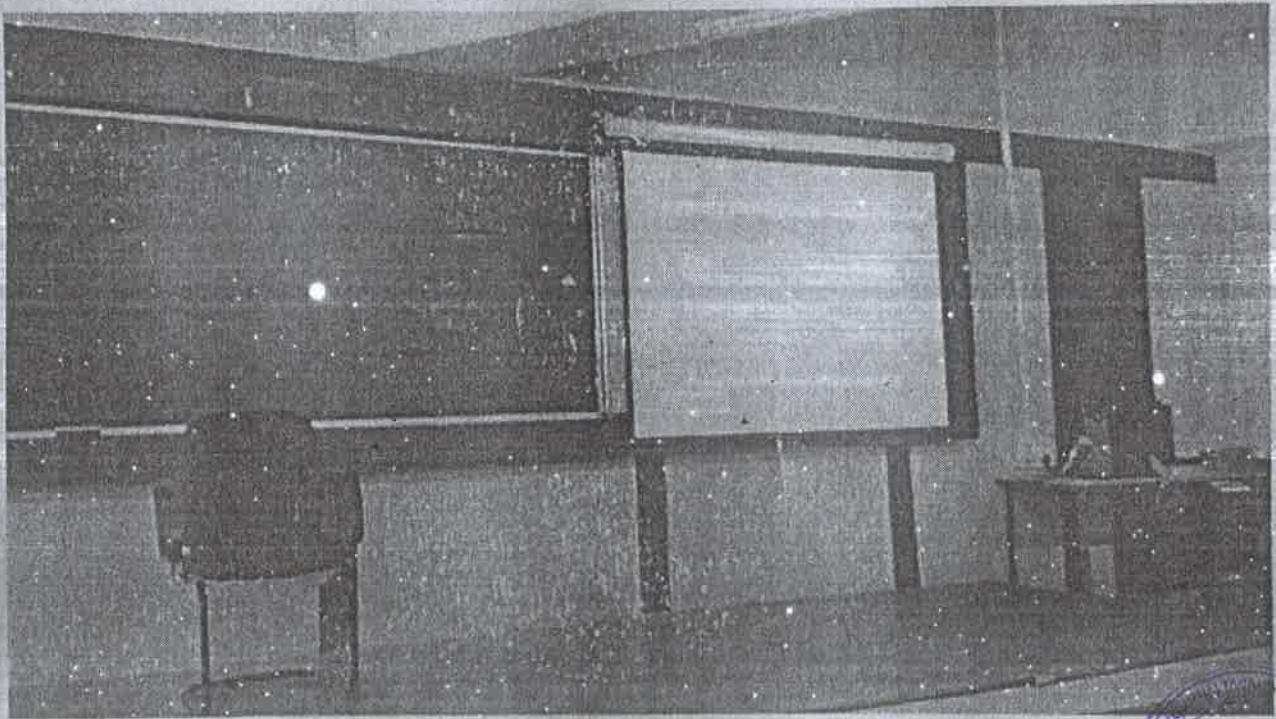
**Objective:** Main objective of this seminar was to introduce latest project areas and technologies in which students can work on their BE project. To understand real time problem statements.

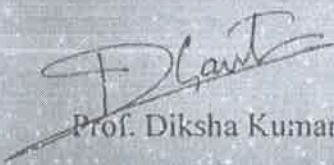
**About the seminar:** The idea behind the seminar is to familiarize student more extensively with the real time project scenarios. Speaker had shared lot of his own industrial projects. Students were made aware of recent research areas. Project seminar covered project management training areas like project scope and gathering requirements; creating a project plan. Project methodology was introduced. Students had cleared their doubts regarding BE project.


  
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Prof. Diksha Kumar  
Project Coordinator

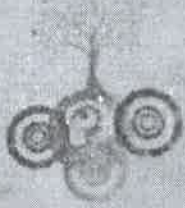
  
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Prof. Vaishali Jadhav  
HOD









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## CONTRIVANCE 2018

**Organizing Department:** Information Technology Department

**Date:** 5 October, 2018

**Chief Guests:**

1. Akash Ghag

Working as an 'Oracle Apps DBA' with "SS&C Advent", having 4.7 years of relevant experience, since April 2014, till date.

2. Namrata S Pawale

Working as Associate software engineer, Bigdata developer-Protegrity India, Inc

**Theme:** Internet of Things and Internet Programming

**Participants:**

Event had overwhelming response in terms of participation. We had participants from departments of SCOE and from other colleges as well. Total 33 groups had participated.

**Objective:** Main objective of this competition was to provide a platform to third year students to showcase their talent, research orientation, technical skills and creativity. The goal of this competition is to prepare the future generation of engineers not only problem solvers but to be innovative leaders and responsible citizens. Project enables students to transform their learning into knowledge, knowledge into action, action into practice. Technical project competition allows students to practice soft skills while reinforcing their engineering knowledge. The contest helps students to consolidate their knowledge and professional skills. They have the opportunity to improve soft skills such as communication, presentation, teamwork and problem-solving and technical abilities beyond boundaries.

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**About CONTRIVANCE 2018:**

In the endeavor to encourage the hidden talents in the students of engineering, IT department of SCOE had organized CONTRIVASNCE 2018 focusing mainly on third year students. It was organized first time to encourage and provide opportunity to third year students as well. This competition was the platform to exhibit student's technical talent through project work.

**Prizes: Prizes were for both streams IOT and IP**

1st prize ---Rs. 1000/-

2nd prize---Rs. 500/-

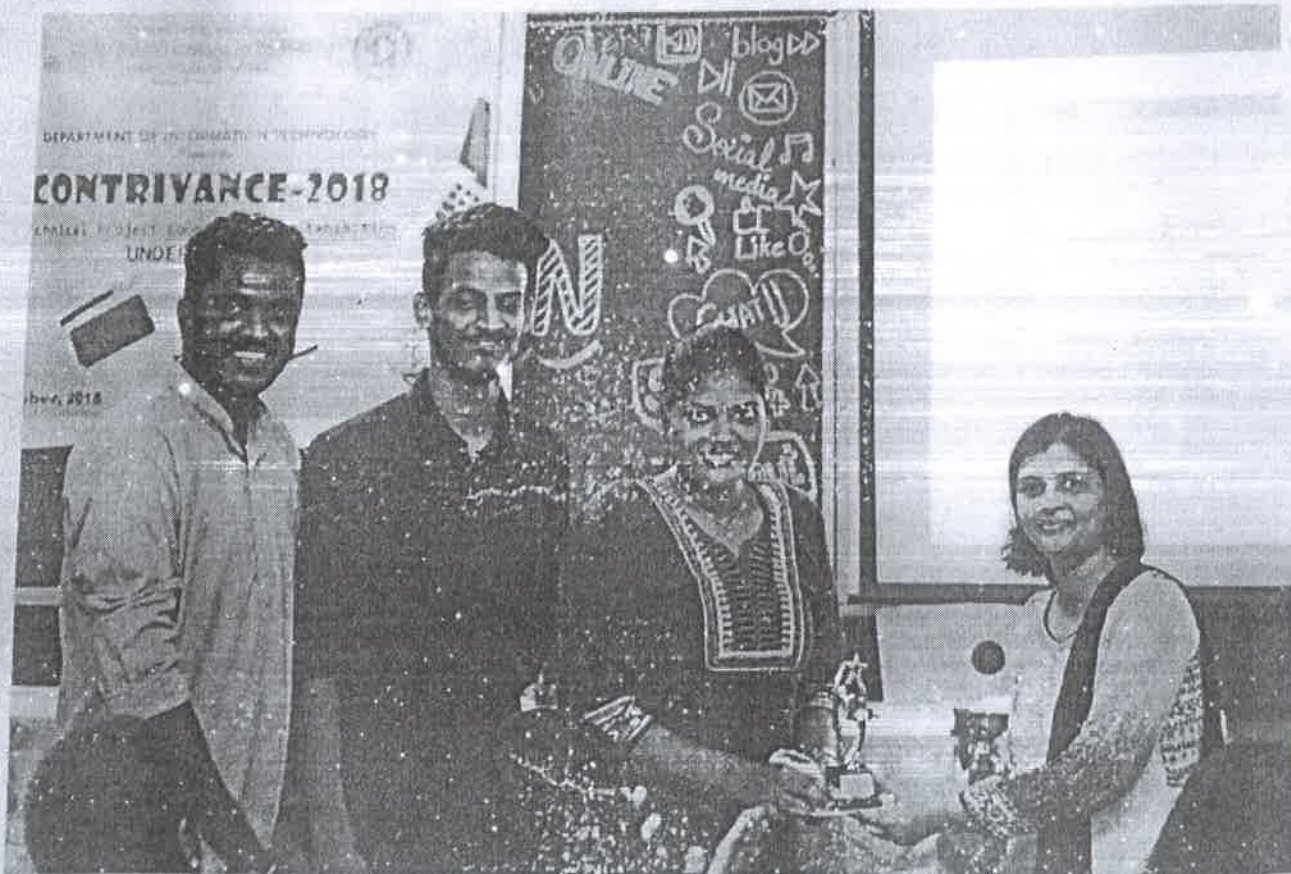
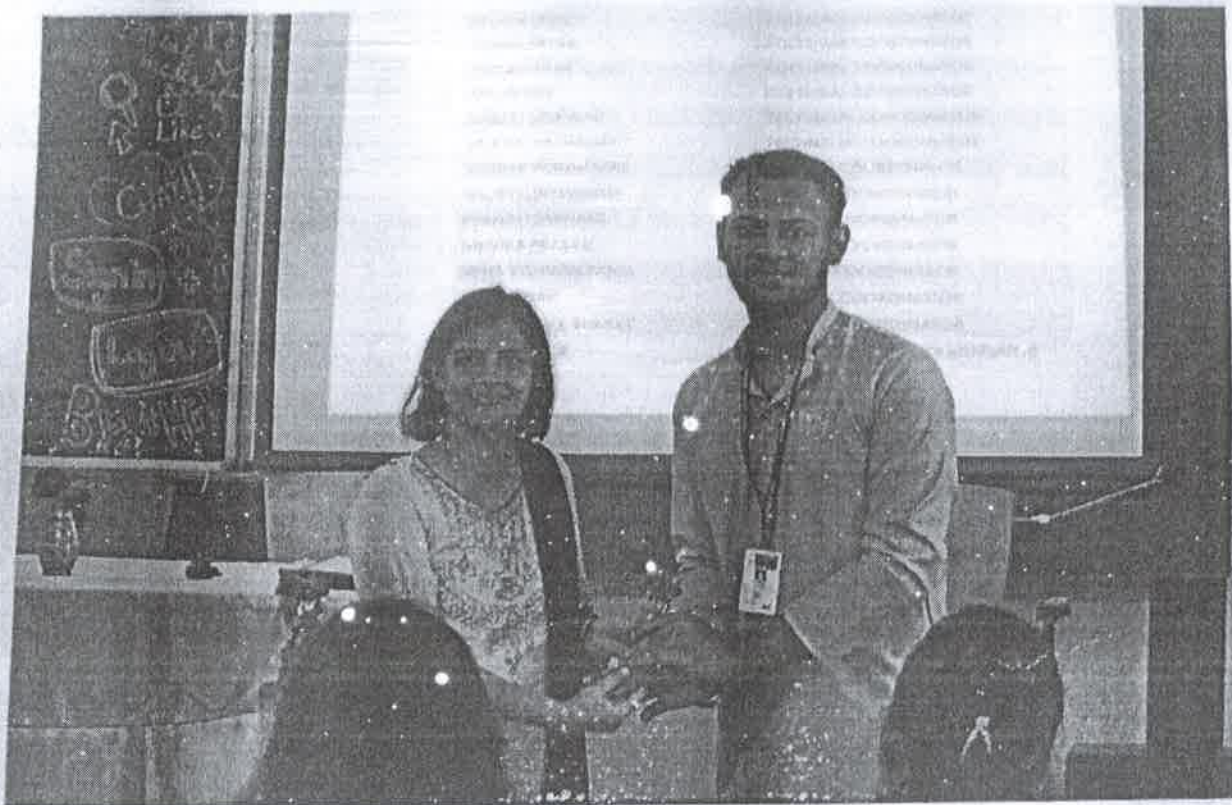
3rd prize---Rs. 500/-




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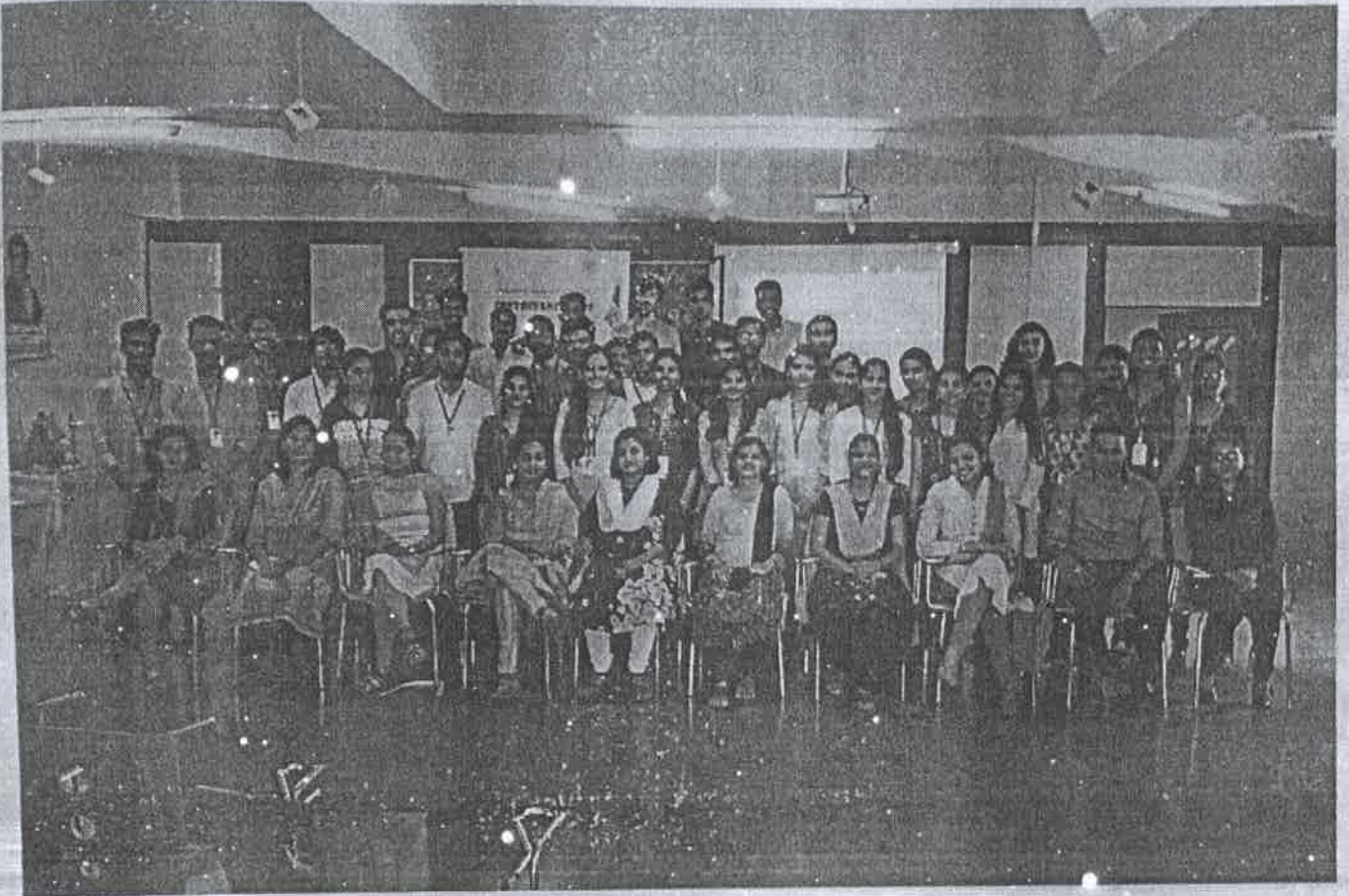






  
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*Dhant*  
Prof. Diksha Kumar

Project Coordinator

*V*

Prof. Vaishali Jadhav

HOD



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**ACADEMIC YEAR 2018-19(ODD SEM)**  
**DEPARTMENT OF INFORMATION TECHNOLOGY**  
Seminar on "Machine Learning"

Conducted Date: 11<sup>th</sup> Oct 2018

Time: 10.00AM – 1.00PM

Venue: Seminar Hall, Fourth Floor

Class : BE

Speaker: Mr. Pankaj Pawar


The two hour seminar was conducted on "Machine Learning" dated on 11<sup>th</sup> oct 2018. The speaker are from Aptech training institute. He completed his phd from IIT Madras and well experienced from industry. The speaker have huge amount of experience in machine learning, python, Datamining. He worked on many industrial AI projects projects and also use to give training on Machine learning in industries

About Aptech

Aptech is a pioneer in providing career-orientated courses to aspiring professionals since 1986. The institute has trained 68 lakh (6.8 million) students through a wide network of education centers located in over 40 countries.

Topics Covered

1. Difference between AI and Machine Learning
2. What is Deep Learning
3. Need of Data mining and Machine Learning
4. What is the use of Machine Learning
5. Real time examples of Artificial Intelligence
6. Useful Trends in present day market like Python using data science

  
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## Objective:

The main objective of this course is

To help students learn, understand, and practice big data analytics and machine learning approaches which include the study of modern computing big data technologies and scaling up machine learning techniques focusing on industry applications. Mainly the course objectives are: conceptualization and summarization of big data and machine learning, trivial data versus big data, big data computing technologies, machine learning techniques, and scaling up machine learning approaches.

## Outcome:

The students learning outcomes are designed to specify what the students will be able to perform after completion of the course:

- Ability to identify the characteristics of datasets and compare the trivial data and big data for various applications.
- Ability to select and implement machine learning techniques and computing environment that are suitable for the applications under consideration.
- Ability to solve problems associated with batch learning and online learning, and the big data characteristics such as high dimensionality, dynamically growing data and in particular scalability issues.
- Ability to understand and apply scaling up machine learning techniques and associated computing techniques and technologies.
- Ability to recognize and implement various ways of selecting suitable model parameters for different machine learning techniques.
- Ability to integrate machine learning libraries and mathematical and statistical tools with modern technologies like hadoop and mapreduce.

## Syllabus to be covered in Hands on Training :

They assured a syllabus that to be covered in hands on training on machine learning after joining their institute:

- Python
- Data Mining
- Machine Learning
- Deep Learning



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Seminar on "Machine Learning"



Seminar on "Machine Learning"

*Praveen Shinde*  
Conducted BY

Mr. Praveen Shinde

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#1, Halghat, Navi Mumbai-410210

*[Signature]*  
HOD (IT Dept)

Prof. Vaishali Jadhav







# SARASWATI College of Engineering

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## International Project Idea Exchange Meet

### Organizing Department:

Information Technology Department and Computer Engineering Department

Date: 11, January 2019

### Speaker:

Mr. Kiran Marekar

### Speaker's Profile:

Mr. Kiran is a technical consultant in Sharjah Environment LLC Beeah, with more than 18 years of experience with 10 plus years of experience in SAP ABAP. He has huge experience of working in different companies in USA, Dubai, Europe and India. He has expertise in Web Dynapro ABAP, ALE & IDOC, integration using XI/PI. His current project includes SAP HRMS, development of dashboards using SAP-BO, integration of SAP etc

### Participants:

Students of IT and computer engineering department

	IT	Computer Engineering
1.	Anjal Afghan	Aishwarya Bobhate
2.	Shailesh Bokare	Chaurasiya Rupeshkumar
3.	Rahul Chaurasia	Ganapuram Shivshankar
4.	Ankit Verma	Samel Mihir
5.	Yash Sarjekar	Waingankar Kalash
6.	--	Maurya Suraj



  
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### Objective:

This meeting was organized with objective of providing international industry exposure to students. It was an opportunity for students to understand and observe real time scenario from industry. Students got an opportunity to understand company's problem statement and propose a solution under the guidance of industry person.

Meeting will be held every Friday to discuss the work done till now and allocation of work.

### Project Details:

The project is based on the recurring quality check for all waste bins spread across UAE and analysis would be done based on the acquired data.

1. After accessing the bin, the user logs on to the system, confirms the barcode and selects the appropriate condition of the bin from the dropdown box.
2. If the bin's condition is not good i.e. damaged, then the user would describe the damage as well as upload pictures of damaged bin.
3. The data which we would upload is in form of barcode, latitude, longitude, damage flag and asset code.
4. These pictures and data collected would then be sent to the database on which the data analysis would be done. (for eg. Change in the location of the bins after some frequency interval. 1 week, 1 month, 1 year etc..)

### Minutes of meeting

- a. Discussion on Company's business process execution.
- b. Demonstration of dashboard by the speaker using different examples.
- c. Problem statement was explained.
- d. Brain storming session for possible solutions.
- e. Discussion on expected solution.
- f. Discussion on login module.



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Photos of the event



Prof. Diksha Kumar  
Project Coordinator

Prof. Vaishali Jadhav  
HOD

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Date - 30/1/19

To,

The principal,

Saraswati College of engg,  
Kharghar.

Permitted  
H.D.

Subject - Regarding permission to  
arrange 1 day workshop on  
'AUGMENTED' reality.

Respected Madam,

We the student of 'RACE' Committee  
from Automobile department are organizing  
one day workshop on AUGMENTED  
reality on 3th Feb 2019.

The expert for this program is  
Dr. RAJESH BUTKAR from Sandam Patel  
College of engineering.

Kindly permit for the same.



*[Signature]*

RACE  
(President)

*[Signature]*  
RACE  
(Co-ordinator)

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Kharghar, Navi Mumbai

*[Signature]*  
H.D.  
(Automobile Dept)



## Report

### Augmented Reality Workshop

9<sup>th</sup> February 2019,

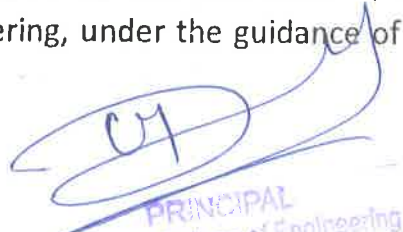
#### About the Workshop

Augmented Reality(A.R.) is a new technology. This technology helps the real and virtual world to co-exist together. This technology applications in various areas. This workshop can be a starting point to any one who is interested in carrying out research and developing applications in A.R.. Participants will be exposed to the software and hardware used in A.R.. This workshop will help the participants understand, how A.R. can be leveraged in education as well as in automotive and auto component industries.

Sr.no	Topics to be covered	Time slot
1	Introduction to Augmented Reality	10.00 to 10.45 a.m.
2	Innovative teaching learning methods using A.R. for the engineering graphics course	10:45 to 11:30am
3	Applications of A.R in remote maintenance	11:45 to 1:00pm
4	Hands on A.R. software	2:00pm to 4:30pm



On 9/02/2019 a One day Workshop on Augmented reality was organized by the R.A.C.E. Committee, Automobile Dept., Saraswati College of engineering, Kharghar, Navi Mumbai. The event was a whole day long and was held in the CAD/CAM lab of Mechanical Dept. In this Event many Student from the Automobile Dept. took part. The Work Shop was conducted by Dr. Rajesh Buktar from Sardar Patel College of Engineering, under the guidance of Prof. T.Z. Quazi, (HOD, Automobile Dept.)

  
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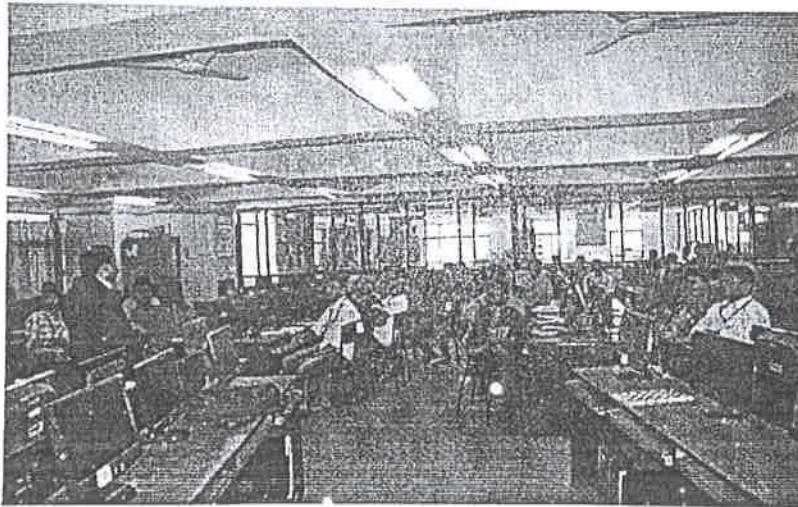






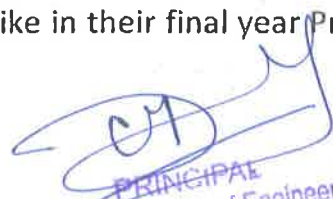
The Workshop was Commenced by the Arrival of all the students at 9.30 am. After the Students arrived they were allotted their Computers. After all the Students were settled at around 9.45 am Dr. Rajesh Butkar sir arrived. He was accompanied by Prof. T.Z. Quazi, Prof. Vishnudas Chodankar, and Mr.Vaibhav Bhosle . Soon after the arrival Dr. Rajesh Butkar sir were felicitated by Prof. T. Z. Quazi.

The workshop was carried out in three phases. First phase included Presentation on Introduction to Augmented Reality . In second Phase there was a presentation on application of A.R. in industries. Education, Automobiles, etc. and the third phase included hands on training of A.R. using Vuforia Software.



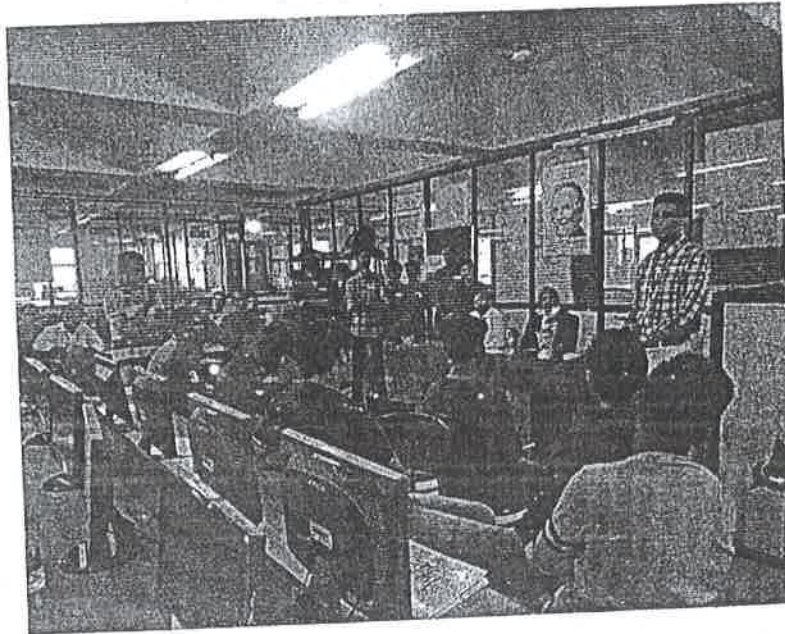
After the felicitation the proceedings were started at 10 am. At the start of the First phase a presentation on Introduction to A.R. was presented to the Students by Dr. Butkar sir. Followed by was a presentation on innovative teaching, learning methods using A.R.. The presentation was also assessed by vedios related to the same. This continued till 11.30pm.

At 11.30 pm the Second phase started wherein a presentation on applications of A.R. was presented. The applications covered almost all the field of Engineering as well as Industries. The Students were also told about how students can work on A.R. use A.R. for academic purpose like in their final year Projects. This Continued till 1pm.

  
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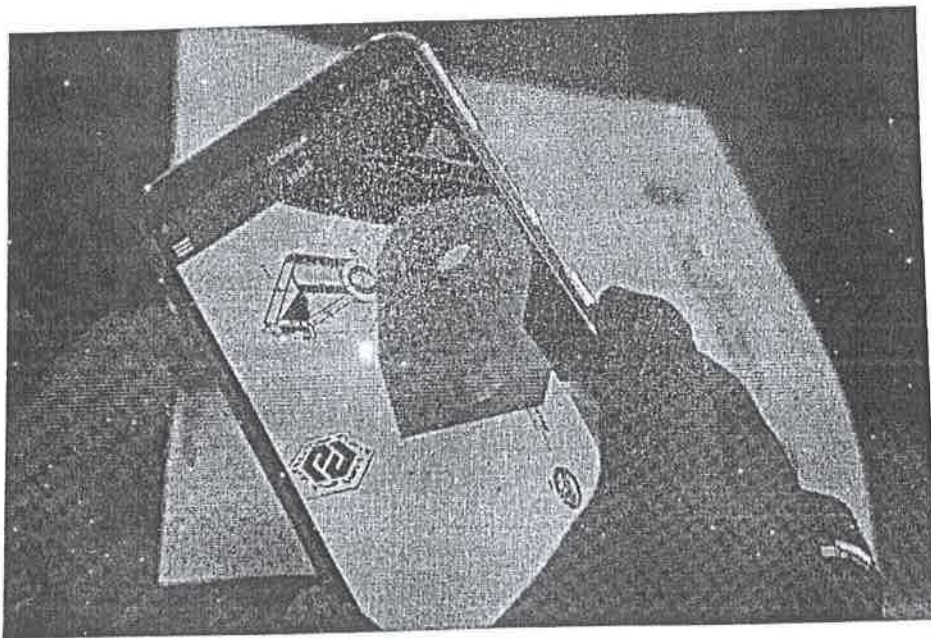
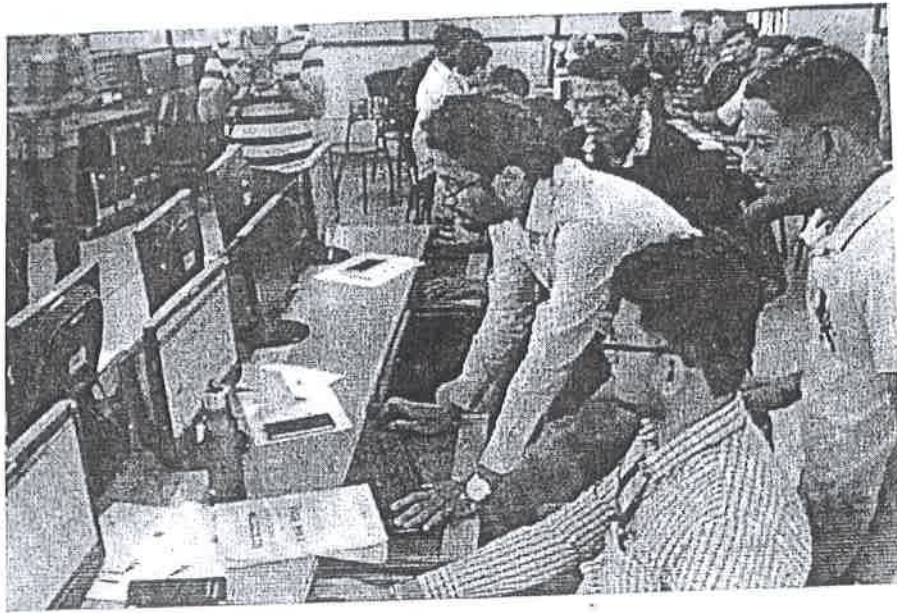
At 1pm there was a Lunch break for everyone. In the lunch break there were snacks arranged by the R.A.C.E. committee to the students in the college canteen. The lunch break was for an hour.

By 2pm the third phase started which was the hand on A.R. software training. The students were trained on the Vuphoria Software. Firstly the Students had to prepare a Model on the Solidworks. After that a thing mark of the same was created in the vuphoria software. The thing mark could be scanned on application on the mobile phones and to the A.R. experience.

  
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The valedictory function was started at 4.30 pm.all the students were given their certificates by Dr. Rajesh Buktar sir. After giving the certificated a feedback was taken from the students orally regarding the workshop and according to the students the workshop was very interesting and the students had a great time attending the workshop.



*[Signature]*  
18/02/19  
**Race Incharge Faculty**  
(Prof. Vishnudas Chodankar)

*[Signature]*  
**HOD**  
(Prof.T.Z. Quazi)

*[Signature]*  
**Principal**  
(Dr. Manjusha Deshmukh)





**REPORT**  
**FULL DAY EVENT ON BLOCKCHAIN TECHNOLOGY IN SARASWATI COLLEGE OF ENGINEERING**

DATE : 2<sup>ND</sup> AUGUST 2019

VENUE: SARASWATI COLLEGE OF ENGINEERING

A FULL DAY TRAINING SESSION ON BLOCKCHAIN TECHNOLOGY WAS CONDUCTED IN SARASWATI COLLEGE OF ENGINEERING FOR STUDENTS OF AUTOMOBILE, COMPUTER AND IT DEPARTMENTS FOR THEIR FUTURE. DELIGETS FROM ERASWAP WALL TECHNOLOGIES CONDUCTED THE LECTURES ON BLOCKCHAIN AND ITS USES IN AUTOMOBILE AND IT SECTORS. ALSO USE OF WALLETS IN BLOCKCHAIN TO TRANSFER ETHERENUM AND MINE DATA USING ETHERENUM FORM BLOCKCHAIN WAS TAUGHT. THE SESSION WAS DIVIDED INTO TWO HALF

1] MORNING SESSION (9:30 AM TO 12 PM)

LECTURE ON WHAT IS BLOCKCHAIN AND ITS WORKING WAS TAKEN IN SEMINAR HALL ON SECOND FLOOR OF COLLEGE / STUDENT WHERE CATHER BEFORE 9:30 AM. AS THE SESSION CONTINUED STUDENT WHERE TAUGHT TO OPEN A E WALLE ERASWAP WALLETS BY DELIGETS FOR UNDERSTANING IT USES IN SECOND SESSION



2] AFTERNOON SESSION (1PM TO 5PM)

A HANDFREE LECTURE ON BLOCKCHAIN AND E WALLET WAS GIVEN TO STUDENT ON COMPUTER ON OF IT DEPARMENT OF COLLEGE. ASLO SOME STUDENT USED THEREOWN LAPTOPS AS THEY WHERE ASKED TO CARRY IT. IN THIS SESSION HOW TO TRANSFER ETHERENUM WAS TAUGHT. ALSO HOWMINE A DATA ENTERED IN BLOCKCHAIN WAS TAUGHT.

  
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**REPORT**  
**FULL DAY EVENT ON BLOCKCHAIN TECHNOLOGY IN SARASWATI COLLEGE OF ENGINEERING**



THE TRAINING WAS CO ORDINATED UNDER THE GUIDENCE OF FOLLOWING :

ITOMOBILE DEPARTMENT

Mr. Quazi Taquiuddin Zaheeruddin, HOD.

Mr. Chodankar Vishnudas, PROF

MPS AND IT DEPARTMENT

Mrs. Vaishali P. Jadhav, HOD

Speakers

Dr. Vikash Kumar, CMO, BLOCKLOGY EDUTECH PVT.LTD.

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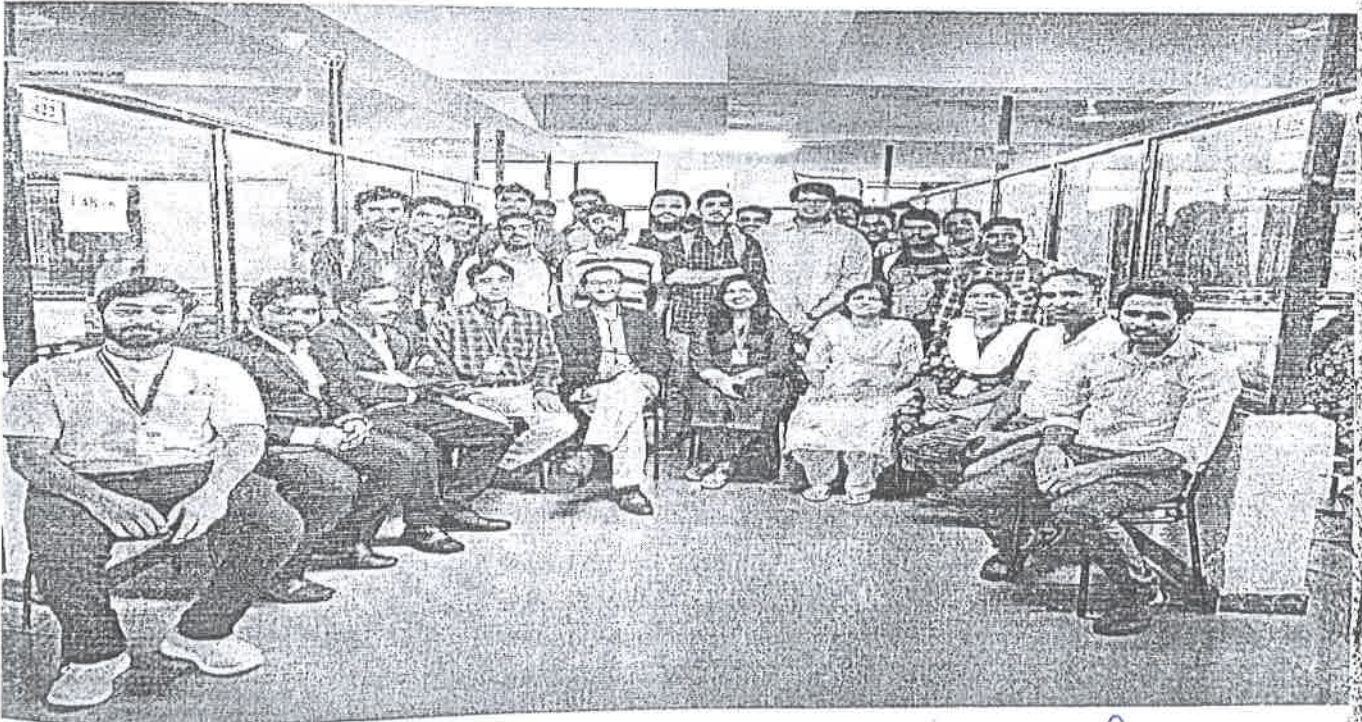
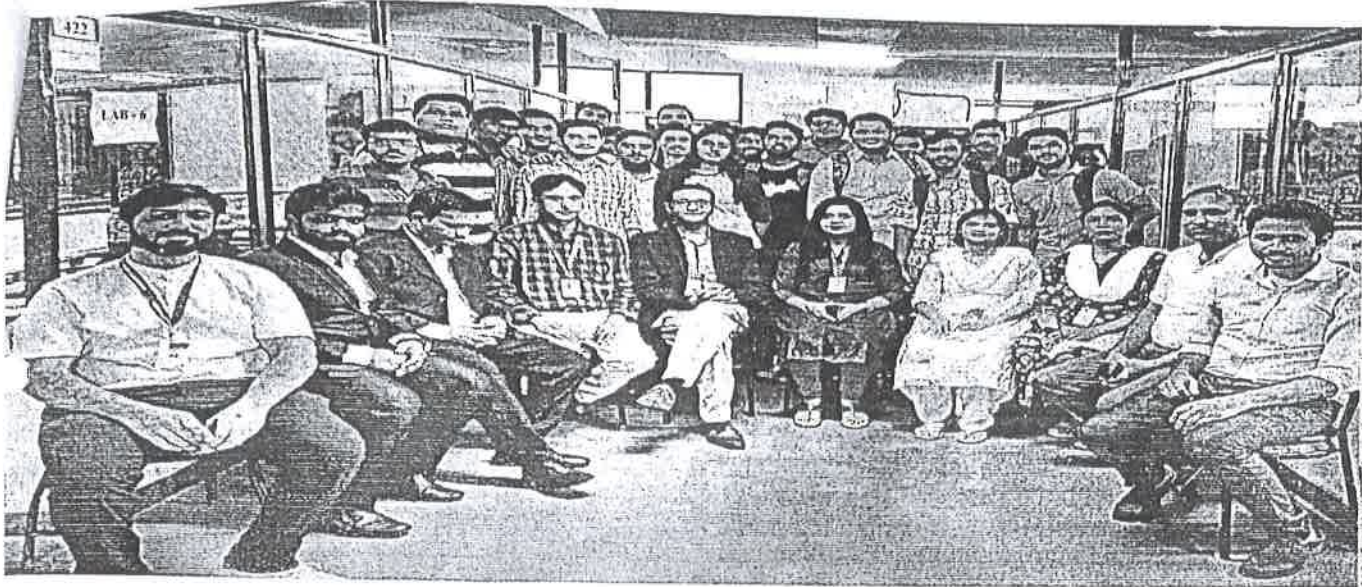


**REPORT**

**FULL DAY EVENT ON BLOCKCHAIN TECHNOLOGY IN SARASWATI COLLEGE OF ENGINEERING**

JETSO ANALIN ,BLOCKCHAIN DEVELOPER AT ERASWAP TECHNOLOGY .

FOTOS



PRINCIPAL  
Saraswati College of Engineering  
Kharghar, New Mumbai-410210





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**SARASWATI College of Engineering**

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Kharghar, Navi Mumbai - 410 210.

ACADEMIC YEAR 2019-20 ( ODD SEM)  
DEPARTMENT OF AUTOMOBILE ENGINEERING  
BLOCK CHAIN WORKSHOP

Class : T.E.

Date:02/08/19

Sr. No.	NAME OF STUDENT	YEAR	Sign
1	ADAVADE SIDDHESH UMESH	T.E.	
2	BAMANE SUMIT DILIP ROHINI	T.E.	
3	CHITTAPUR KIRANKUMAR	T.E.	
4	GAIKWAD VYANKATESH ANIL	T.E.	
5	HOGLE VINAY ANIL	T.E.	
6	<del>KADAM</del> JADHAV JATIN MARUTI MALTI	T.E.	
7	JAMNARE ABHISHEK KISHOR	T.E.	
8	MALAYE SIDDHESHWAR	T.E.	
9	MANDAVKAR PRATIK PRADIP	T.E.	
10	MORE KUNAL ANIL AARTI	T.E.	
11	PATIL NIKHIL NARESH USHA	T.E.	
12	RANDIVE SUJAL KUNDAN	T.E.	
13	SHARMA AJAY BALINDER	T.E.	
14	SHIGWAN ANIKET MAHADEV	T.E.	
15	SHIRSATH NIKHIL MANOJ	T.E.	
16	SHIRUDKAR ROHIT RAJENDRA	T.E.	
17	SURYAVANSHI CHINMAY	T.E.	
18	SUTAR NILESH UTTAM ANITA	T.E.	
19	THAKARE RAHUL BHAU	T.E.	
20	VEDPATHAK SATEJ DILEEP	T.E.	
21	YEDRE PRATHMESH	T.E.	
22	PAWAR SUNAD ANANT	T.E.	
23	TATKARE PRATIK DATTARAM	T.E.	



Race Co-Ordinator  
Prof. Vishnudas C.

Block Chain Expert  
Vikash Kumar

HOD(Automobile)  
PRINCIPAL  
Saraswati College of Engineering  
Kharghar, Navi Mumbai-410210  
Prof. T.Z. Quazi





**Report on – National Seminar on “Cyber Security and Ethical Hacking”**

**Date : 30/10/2019**

**Organizing Department:** Information Technology Department

**Date:** 30<sup>th</sup> Sep 2019 , 10.30 am to 1.30 pm

**Venue :** Seminar Hall, 2<sup>nd</sup> floor

**Number of Participants:** 200

**Speaker:** Mr. AKSHAY PANDURANGI, SR. CYBER SECURITY CONSULTANT, PRISTINE INFOSOLUTIONS PVT. LTD

**Objective:** Objective of seminar is to understand underlying principles and many of the techniques associated with the ethical hacking and cyber crime. It is necessary to evaluate the security of and identify vulnerabilities in systems, networks or system infrastructure. With that students should aware of cyber security which is used to prevent or mitigate harm to destruction of computer networks, applications, devices, and data.



Department of Information Technology organized an seminar on “Cyber Security and Ethical Hacking”. This seminar was conducted on 30/10/2019 at 10.30am to 1.30 pm. Seminar was delivered Mr. Akshay Pandurangi, SR. Cyber Security Consultant,

  
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PRISTINE INFOSOLUTIONS PVT. LTD. He is qualified in Ethical Hacking, Penetration Testing etc. and detailed knowledge of security tools, technologies and best practices. Also he has More than two years of experience in the creation and deployment of solutions protecting networks, systems and information assets for diverse companies and organizations.



Seminar mainly covered computer security basics, email security, different types of malwares, sniffing and phishing, website hacking, cyber crime and cyber laws. I will push students to think out of the box. Also the carrier opportunities in field of ethical hacking and cyber security and law was explained by speaker.

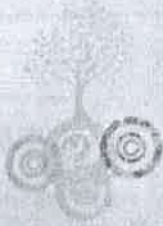
*Mahi*  
Ms. Mahi Khemchandani/ Ms. Vrushali Thakur  
Co-Ordinator



*Diksha*  
Ms. Diksha Kumar  
H.O.D (IT)

*[Signature]*  
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Date: 3/10/2019

## NASA SPACE APP CHALLENGE EVENT REPORT


### Space App Challenge (Pre-Qualification Round)

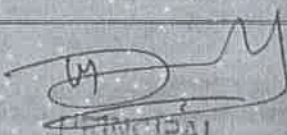
#### Concept:

The International Space App Challenge is an international mass collaboration focused on space exploration that takes place in different cities all around the world. The event embraces collaborative problem solving with a goal of producing relevant open source solutions to address global needs applicable to both life on Earth and life in space. NASA is leading this global collaboration along with a number of government collaborators and over 100 local organizing teams across the globe.

<b>Date:</b>	1 <sup>st</sup> October 2019
<b>Duration :</b>	24 hours
<b>Location:</b>	Saraswati College of Engineering, Plot number 46, Sector 5, behind MSEB Substation, Kharghar.
<b>Convenor :</b>	Dr. Manjusha Deshmukh
<b>Event coordinator:</b>	Prof. Vaishali Jadhav
<b>Faculty coordinators:</b>	Prof. Shanti Selvam Prof. Sunil Jankar Prof. Chetan Thakur Prof. Shraddha Subhedar Prof. Sujata Bhaimallykar Prof. Rajashree Narwade Prof. Nilesh Patil Prof. Seema Singh



  
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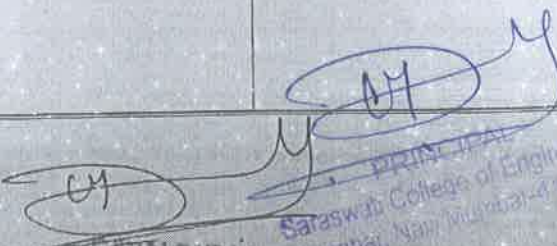


Number of Volunteers :	37
Goals:	<ol style="list-style-type: none"> <li>1. To encourage students to know about Hackathon culture and take active participation in real time issues or problems using NASA open data.</li> <li>2. To bring forth the innovative ideas and solutions to the problem statements provided by Space Apps Team.</li> <li>3. Students selected in Pre Qualification will be sent to local level of Hackathon to compete with different Zonal winners.</li> </ol>
Number of participants:	204
Number of Teams registered	58

**Agenda of the Event :**

Sr. No.	Session	Time
1	Registration	8.30am-9.30am
2	Inauguration	10.00am-11.00am
3	Introduction to NASA Space Challenge (pre-qualification round)	11.15am-11.30am
4	Team introduction and Elevator pitching	11.30am-1.00pm
5	Lunch	1.00pm-1.45pm
6	Working on ideas	1.45pm-3.45pm
7	Mapping and processing of data	3.45pm-4.45pm
8	Fun Session	4.45pm-5.00pm
9	Mentoring	5.00pm-7.00pm
10	Break	7.00pm-7.30pm
11	Second evaluation	7.30pm-9.30pm
12	Dinner	9.30pm-10.15pm
13	Networking and Prototyping	10.15pm-11.45pm
14	Closing ceremony	11.15pm-12.00pm



  
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### About the event :

The event had been organized by the Sarawati College of Engineering, Kharghar. The event began with an inauguration ceremony after which the pitching started. Up to 58 teams were registered and participated as a part of the pre-qualification round. During the elevator pitch, each team was given about 4 minutes to present their ideas.

Post lunch, the students started working on their ideas from given challenges. The mentoring was provided to students by experts. Students were able to interact with the mentors from SUMVN and get valuable inputs from them and validate their ideas and work on the loopholes their ideas might have. After which the mentors validated the ideas of students.

During the scrutinization round each team was given 3 to 5 minutes of time to pitch their ideas and among them top 5 teams being selected by the jury and awarded.

The winners were selected based on how technically sound they were their creativity and the open data sets used by the students.

### **Members of the Jury:**

Mr. Muhammad Mushraf

Ms. Puja Tak

### **Faculties from SCOE**

Dr. Sunil Rangari

Prof. T. Z. Quazi

Prof. Madhukar Sorte

Prof. Mr. Baviskar D. D

Prof Diksha Kumar

Prof. Suhasini Parvatikar

### **Members of the Mentors:**

Mr. Santoshkumar Nigam

Mr. Sudhakar Jadhav

Ms. Sayali Patil


Ms. Jyoti Kotaru

Ms. Priyanka Sonavane

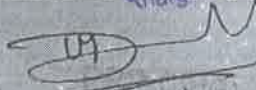
### **Resources provided :**

- Printing brochures and posters
- Food (Lunch, dinner and breakfast)
- Tea and Snacks
- Electricity
- Wi-fi
- Water Supply



  
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- Faculty In charges
- Photography
- Social media support
- Transportations
- Certificates

**Results:**

1. The event was successful with 204 participants.
2. Among 58 registered Teams, **5 top teams** were selected for the next round of the local level of Hackathon.
3. The winners were chosen to attend the NASA Space Apps challenge 2019, Delhi.

**Winners of The Hackathon:**

Sr No	Team Members	Project	College
1	Mitesh Sanjay Metha Adarsh Shriram Pednekar Shubham Rajendra Padale Raj Jagdish Parab	VCare AI	Saraswati college of Engineering & Bharti Vidyapeeth college of Engineering
2	Apurva Pol Chetna Egral	3D object Modelling using Augmented Reality	Saraswati college of Engineering
3	Vishakha Rajendra Shete Rachana Rammehandra Khond Prarthana Prakash Sinde Jyoti Chandrakant Turai	Cladding Tile	Sharad Institute of technology, Kolhapur
4	Rushda Sarguroh Mohammad Zeeshan Jagirdar Imran Saiyyed Alsiya Ghawte	Human Rescue Robot	M. H. Saboo Siddik College of Engineering, mumbai
5	Prathamesh Tambe Mony Suradkar Tushar Lute Ameya Mallya	Design and fabrication of advanced mine detection and Defusing robot	Saraswati college of Engineering



**Feedback and Learning points:**

**Convenor:**

**Dr. Manjusha Deshmukh :**

Our students has got good exposure to the real time scenarios by attending the 2019 qualification Hackathon organized by SUMVN at our college, and a new dimension thinking capability of the students has made them to innovate and explore the new ideas.

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Kharghar, Navi Mumbai - 401020



**Event Coordinators:**

**Prof. Vaishali Jadhav**

The pre qualification Hackathon conducted at our college by SUMVN was very useful to our students in exploring their innovative skill and enhancing their knowledge levels.

**Future development:**

1. To create a community to ensure that the students learn about technology and build up their ideas to solve real time problems of world in hackathons which are going to be conducted in the future.
2. To support the students selected to the next round of Space Apps hackathon by providing relevant mentors and technical experts.

**Photos of the event:**



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Principal  
Saraswati College of Engineering  
Kharghar, Navi Mumbai-410210



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**CONTRIVANCE 2019**

**Organizing Department:** Information Technology Department

**Date:** 11 October ,2019

**Chief Guests:**

**1. Jetso Analin**

Working as Founder KubixSquare, Code-X,| Blockchain & FullStack Developer,| Public Speaker & Trainer

**2. Sanket Parab**

Working as Sr. Digital Marketing Executive at Blocklogy at eraswap

**3.Suraj Anchan**

Working as Business Development Manager at Era Swap

**Theme:** Internet of Things

**Participants:**

Event had overwhelming response in terms of participation. We had participants from IT departments of SCOE .

**Objective:** Main objective of this competition was to provide a platform to third year students to showcase their talent, research orientation, technical skills and creativity. The goal of this competition is to prepare the future generation of engineers not only problem solvers but to be innovative leaders and responsible citizens. Project enables students to transform their learning into knowledge, knowledge into action, action into practice. Technical project competition allowed students to practice soft skills while reinforcing their engineering knowledge. The contest helped students to consolidate their knowledge and professional skills. They have the opportunity to improve soft skills such as communication, presentation, teamwork and problem-solving and technical abilities beyond boundaries.



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**About CONTRIVANCE 2019:**

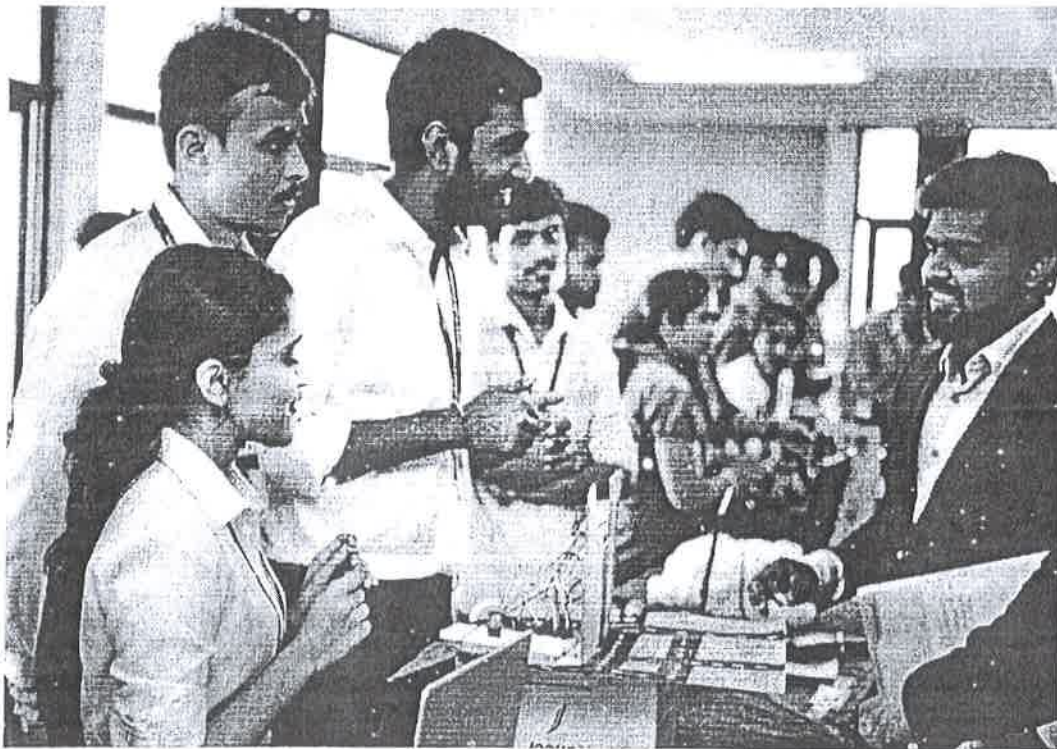
In the endeavor to encourage the hidden talents in the students of engineering, IT department of SCOE had organized CONTRIVANCE 2019 focusing mainly on third year students. 65 students participated in this competition. It was organized to encourage and provide opportunity to third year students. This competition was the platform to exhibit student's technical talent through project work.

**Prizes: Prizes were for both streams IOT**

1st prize ---Rs. 1000/-

2nd prize---Rs. 500/-

3rd prize---Rs. 500/-



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*RS*  
Prof. Ragini Sharma  
Project Coordinator

*D. Kast*  
Prof. Diksha Kumar  
HOD

*[Signature]*  
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Saraswati College of Engineering  
Kharghar, Navi Mumbai-410210



## Report

# Seminar on Machine learning

Date 17/01/2020

Venue – Seminar Hall 2<sup>nd</sup> floor

No of participants -54

Class-SE/BE

Speaker: Mr Pankaj Pawar

Objective-


Student will be able to

1. To understand the structure of data and fit that data into models that can be understood and utilized by people.
2. To understand Machine learning in business and other fields is effectively a method of data analysis that works by automating the process of building data models.

Outcome -

students should be able to:

1. understanding of the fundamental issues and challenges of machine learning: data, model selection, model complexity, etc.
2. Appreciate the underlying mathematical relationships within and across Machine Learning algorithms and the paradigms of supervised and un-supervised learning



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Pankaj S Pawar

MTech(ComputerScience, IIT-Madras)

BE (Computer Engineering, Pune University)

## Work Experience

### Robotics Process Automation Engineer:

Jan 2018- Current

- Leading the team in an Investment bank which is responsible for automating multiple task using Robotic Automation Process in operation space.
- Pega Open Span developer

### Machine Learning and Data Science

Jan 2015 – Jan 2018

- Created the machine learning tool for document classification in Real Estate Business.
- Python developer

### Machine Learning Instructor – Freelancer

### Merchant Banking and Real Estate

Jan 2014 – Jan 2015

- Managed and supported the Argus Application for Merchant Banking and Real Estate business.

### Trading and Compliance

Aug 2011-Dec2014

- Dot net developer for Trading and Compliance Division
- Managed and support Sentinel – Trading rule Engine Application
- Python developer
- Perl developer
- WPF and WCF developer.



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Introduction. Machine learning is a subfield of artificial intelligence (AI). ... Because of this, machine learning facilitates computers in building models from sample data in order to automate decision-making processes based on data inputs. Any technology user today has benefitted from machine learning.

Machine learning (ML) is the scientific study of algorithms and statistical models that computer systems use to perform a specific task without using explicit instructions, relying on patterns and inference instead. It is seen as a subset of artificial intelligence. Machine learning algorithms build a mathematical model based on sample data, known as "training data", in order to make predictions or decisions without being explicitly programmed to perform the task.<sup>[1][2]</sup> Machine learning algorithms are used in a wide variety of applications, such as email filtering and computer vision, where it is difficult or infeasible to develop a conventional algorithm for effectively performing the task.

Machine learning is closely related to computational statistics, which focuses on making predictions using computers. The study of mathematical optimization delivers methods, theory and application domains to the field of machine learning. Data mining is a field of study within machine learning, and focuses on exploratory data analysis through unsupervised learning

Machine learning tasks are classified into several broad categories. In supervised learning, the algorithm builds a mathematical model from a set of data that contains both the inputs and the desired outputs. For example, if the task were determining whether an image contained a certain object, the training data for a supervised learning algorithm would include images with and without that object (the input), and each image would have a label (the output) designating whether it contained the object. In special cases, the input may be only partially available, or restricted to special feedback.<sup>[clarification needed]</sup> Semi-supervised learning algorithms develop mathematical models from incomplete training data, where a portion of the sample input doesn't have labels.

### Types of learning algorithms

The types of machine learning algorithms differ in their approach, the type of data they input and output, and the type of task or problem that they are intended to solve.



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### Supervised learning

Supervised learning algorithms build a mathematical model of a set of data that contains both the inputs and the desired outputs. The data is known as training data, and consists of a set of training examples. Each training example has one or more inputs and the desired output, also known as a supervisory signal. In the mathematical model, each training example is represented by an array or vector, sometimes called a feature vector, and the training data is represented by a matrix. Through iterative optimization of an objective function, supervised learning algorithms learn a function that can be used to predict the output associated with new inputs. An optimal function will allow the algorithm to correctly determine the output for inputs that were not a part of the training data. An algorithm that improves the accuracy of its outputs or predictions over time is said to have learned to perform that task.

### Unsupervised learning

Unsupervised learning algorithms take a set of data that contains only inputs, and find structure in the data, like grouping or clustering of data points. The algorithms, therefore, learn from test data that has not been labeled, classified or categorized. Instead of responding to feedback, unsupervised learning algorithms identify commonalities in the data and react based on the presence or absence of such commonalities in each new piece of data. A central application of unsupervised learning is in the field of density estimation in statistics, though unsupervised learning encompasses other domains involving summarizing and explaining data features.





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Ms Kiran Mhamunkar  
Coordinator

  
PRINCIPAL Ms. Diksha Kumar  
Saraswati College of Engineering  
Kharghar, Navi Mumbai-410210  
HoD



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To,

Mr. Kartik Bolar,

Head of Sales and operations

MAKE IT TAKE IT

Andheri, Mumbai.

Respected Sir,

On behalf of Saraswati College of Engineering, we wish to extend our heartfelt appreciation to you for being speaker of Expert Seminar on "Augmented Reality" held on 26<sup>th</sup> September 2019. We thank you for the invaluable contribution you made at the program.

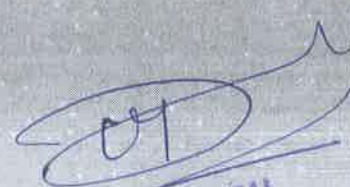
We express our sincere gratitude and thankfulness for the time you took from your busy schedule to address the participants and share your expertise and insights with all of us.

Once again, thanks very much for your esteemed presence and we hope you will oblige us in our future endeavors.

Thanks and Regards,

Dr. Manjusha Deshmukh

Principal



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To,

Mr. Ninad S.,

Project Coordinator

MAKE IT TAKE IT

Andheri, Mumbai.

Respected Sir,

On behalf of Saraswati College of Engineering, we wish to extend our heartfelt appreciation to you for being speaker of Expert Seminar on "Augmented Reality" held on 26<sup>th</sup> September 2019. We thank you for the invaluable contribution you made at the program.

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Thanks and Regards,

Dr. Manjusha Deshmukh

Principal



  
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**DEPARTMENT OF INFORMATION TECHNOLOGY**

**ACADEMIC YEAR 2019-20(ODD SEM)**

Date : 26/09/2019

The average feedback for Expert Seminar on "Augmented Reality"

Sr. No.	Details	Average Feedback
1	The training met my expectations.	4.32
2	I will be able to apply knowledge gained.	4.24
3	Training objectives for each topic were identified and followed.	4.09
4	Content was organized and easy to understand.	4.14
5	Trainer was knowledgeable.	4.5
6	Quality of instruction was good.	4.14
7	Trainer met the training objectives.	4.12
8	Class participation and interaction was encouraged.	4
9	Adequate time was provided for questions and discussions.	4
10	I would like to attend such trainings in future.	4.34
11	How would you rate the training overall	4.34

Overall Average Feedback: 4.2

*Malek*  
26/9/19  
Seminar Coordinator

*[Signature]*  
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Kharghar, Navi Mumbai - 410 210  
26/9/19  
HoD





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ACADEMIC YEAR 2019-20 (ODD SEM)

## Expert Seminar on Augmented Reality



A handwritten signature in blue ink, appearing to be "M. Y.", written over a horizontal line.

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Kharghar, Navi Mumbai - 410210

Prepared By: Maahi Khemchandani (Seminar Coordinator)

Received By: Diksha K. (HOD-IT)

Date: 23/10/2019





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DEPARTMENT OF  
INFORMATION TECHNOLOGY  
Academic Year 2019-20 [ODD Sem]

Expert Seminar  
On  
"Augmented Reality"

INDEX

Sr No.	Description
1	Permission Letter
2	Seminar Details
3	Resume of Resource person
4	Seminar Banner
5	Attendance Sheet
6	Feedback
7	Thanking Letter



*Maleo*

Seminar Coordinator

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Kharghar, Navi Mumbai - 410210

*[Signature]*

Head of Department





Date: 25/09/2019

To,  
The Principal,  
Saraswati College of Engineering,  
Kharghar, Navi Mumbai

**Subject: Regarding permission of One day Expert Seminar for IT students.**

Respected Madam,

We would like to ask for your permission for organizing **One day Expert Seminar on 26<sup>th</sup> September 2019** for the students of IT department, on the topic **"Augmented Reality"**. We do believe that this seminar may sharpen our students with their advanced level understanding of Augmented Reality & its applications.

Hoping for your favorable response about the matter.

Thanking You.

Yours faithfully,

*Mahe*  
25/9/19  
Mrs. Maahi Amit Khemchandani  
Coordinator

Event ID – IT-49

*Permitted*  
*UJ*  
*forwarded*  
*UJ*  
PRINCIPAL  
Saraswati College of Engineering  
Kharghar, Navi Mumbai-410210  
25/9/19





**Department of Information Technology**  
**Industrial Visit to Sebiz Infotech, Mohali**

Date: 21/01/2020

Date : 31/12/2019  
No of BE Students: 21  
No of TE Students: 15  
No of SE Students: 05

No of Staff: 03

Expenditure: 9500Rs/- per student

Objective: Students will experience the working environment of Software Company and will come to know the procedure for working on recent projects and on different platforms using various technologies.

**Outcome:**

Our aim behind visiting Sebiz Infotech, Mohali is to know work procedure of company, how employees communicate with client, how company's infrastructure was managed, how security was provided.


Students were very much Excited to visit Sebiz Infotech, Mohali. The one day workshop was conducted in the premises of company were knowledgably good for the students.

**The HR and project leader explained**

- How the project planning was carried out,
- How they work as a team.
- They had an explanation of one of present working live project which is very useful for the students.

There is also interaction session where the students had question and answers round. They also explained different evolving Languages and technologies on which they can work, i.e,

- Artificial Intelligence
- Python
- Jasson
- .Net
- PHP

  
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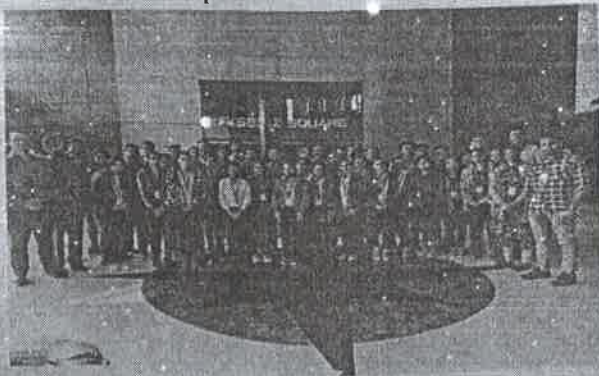
- Android
- Hadoop



The HR and Team Leader clarified most of the doubts that students were aroused while interaction round like

- Which is the best language on which they can work
- What is present situation of IT industry in the market.
- How many months training is required to learn particular language.
- How and on what basis the grading system is provided for their efforts in work.
- How many year experience is needed to become project leader.
- What are all the different departments that are there in particular organization.
- What are all the backend databases they can learn for present industry needs.

All the above questions were answered by them, they also explained all the disciplinary acts.



The students got great experience visiting the Sebiz Infotech, Mohali.

*Ms. Vrushali Thakur*

IV coordinator

Ms. Vrushali Thakur

*[Signature]*  
 PRINCIPAL  
 Saraswati College of Engineering  
 Kharghar, Navi Mumbai - 410210  
 21/11/20

HOD (IT Dept)  
 Prof. Diksha Kumar



<b>Project Name</b>	NEXT - Think Tank	<b>Venue</b>	Seminar Hall, Saraswati College OfEngineering
<b>Time Stamp</b>	2020-02-10 23:56:17.856211	<b>Project Status</b>	On Time
<b>Reporting Month</b>	January		
<b>Quarter</b>	Three		
<b>Avenue 1</b>	Professional Development	<b>Avenue 2</b>	PR
<b>Start Time</b>	24-01-2020 10:00:00	<b>End Time</b>	24-01-2020 13:00:00
<b>Project Level</b>	Club		

To brief students about upcoming industrial standards in technical and non technical profiles and how to achieve those standards.

- H.R.D. Rtr. HarshalKeni took the initiative to do NEXT- Think Tank on club level & started building the team for the same.
- The ground work started from 15th December 2019.
- The team had meeting with principal Dr. Manjusha Deshmukh & faculty coordinator Prof. Megha Pandey and came to the conclusion of inviting speakers from technical & entrepreneurship background.
- An Offline survey from students gave a brief idea that people would more like to enjoy speaker from YouTube & Fashion background.
- So the team finalized to invite speakers from both technical & non-technical background.
- Instagram group was created among club members where everyone could share Instagram profile & contact information.
- Ticket and jpeg were created by Team Creatives.
- Team creatives also put up the Next Think details on the club notice board so that college students can manage their practicals accordingly.
- Tickets price was decided to be Rs. 50 as it should be affordable to every college student.
- Total of 6 speakers were invited for the event. 1 **Faisal Farooqui** who is CEO ofMouthshut.com, has various achievements like Red Herring Asia Top 100 Companies, Entrepreneur Magazine: Top Entrepreneur, Outlook Magazine: Named as top 5 techies to follow on twitter, Young Men Of America Award etc. 2 **FarrhadAcidwala**- Entrepreneur, Influencer, Featured by CNN, DNA, MSN, Vogue, Invited by - Army, IITs, IIMs/TEDx etc. 3 **Vidit Sharma** - Contestant on MTV Roadies Xtreme 2018, Mr. Ahmedabad, 1st Runner Up of Times Fresh Face. 4 **Talha Siddiqui** - Comedian, Middle ground rapper at Dependent Artist, written shows are Weekends, Zeroes, Bhootpurva, Brocode etc. 5 **Dipika Patil** - Model, Actress, has achievements like Miss Allure 2016-2017, Miss Summer Tulip India 2017-18. 6 **AnaghaMirgal** - Food Blogger& Graphic Designer.
- The speakers were informed that session will go for 15 minutes.
- Hospitality of the speakers were arranged in the Principal's cabin.





- Students who purchased tickets assembled near seminar hall and registered themselves.
- First Speaker **Mr. Faisal Farooqui** started his speech by explaining how important it is to be idea be unique. How can we market our ideas and talent. What are the challenges that come when we start a business. Mr. Faisal also explained what problems he faced and how did he overcame those. He also said how he always followed his passion and showed consistency and dedication to all the work he did also advised the students to do the same.
- Mr. Faisal was felicitated by Rtr. Hrishikesh Sawant.
- Second Speaker **Mr. FarrhadAcidwala** started his speech by his video of all his achievements. He explained how he became





the CEO at very young age and how he convinced his parents that he want to start his own company. He also explained the current trends in the business industry like Cyber Security and how one should understand what standard the business industry demands from an employee and how one can achieve those standards.

- Mr. Farrhad was felicitated by Rtr. Soumya Shetty
- Third Speaker **Mrs. Anagha Mirgal** explained how she started making YouTube videos, what are the skills required to be a good youtuber, how she manages her work and her passion to be a traveler and food blogger. She explained how the surroundings changes dramatically when someone travels. She shared what are the exotic places the visit and what are the yummiest foods to be tasted. She shared her experience of coming across the difficult situation while travelling. She encouraged the students to follow the passion and also not to disturb the academics as it is also equally important in life.
- Fourth Speaker **Ms. Dipika Patil** explained how she a small town girl from Uran ended up in the fashion industry. How she learnt how to do a ramp walk and how to keep smiling and stand in one position for hours no matter how bad your health conditions. She also shared her experience of her family's feelings of her being in the fashion industry.
- Rtr. Shubham Bhaye felicitated Ms. Dipika Patil.
- Fifth Speaker **Mr. Talha Siddiqui** - He started his speech by what are the different types of profession in YouTube channels. How he ended up in this industry. He explained that content is bigger than stardom. How important it is to have the original and people related content. He also explained how he writes RAP that are connected to common people. He also performed three Raps.
- Mr. Talha was felicitated by Rtr. Devashish Mande.
- Sixth Speaker **Mr. Vidit Sharma** - who explained how to he achieved the Times Fresh Face Runner Up and also academics award by Mr. Mukesh Ambani. He showed his Instagram feed and how his previous self is upgraded by hardwork. He also explained how to the negative people and negative scenario. He along with his friends performed live music and asked the students what should they name their upcoming song.
- Mr. Vidit was felicitated by Rtr. Adil Khan.

- I appreciate that RC Saraswati is the first club to conduct Next Think Tank

~Rtr. Adil Khan, Dist. Chairman H.R.D.

- It was powerful panel of speakers

~Rtr. Devashis Mande Dist. Jt. PD.



Some glimpse of the project.

[https://drive.google.com/drive/folders/1y0\\_2ZodCeeCHwtB7mINFtSWaEfSg-gw4](https://drive.google.com/drive/folders/1y0_2ZodCeeCHwtB7mINFtSWaEfSg-gw4)

Income

₹000 Expenditure

2000

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Sr	Member ID	Member Name
1	RTR00753	Shubham Bhaye
2	RTR00765	Apurva Mahendra Patil

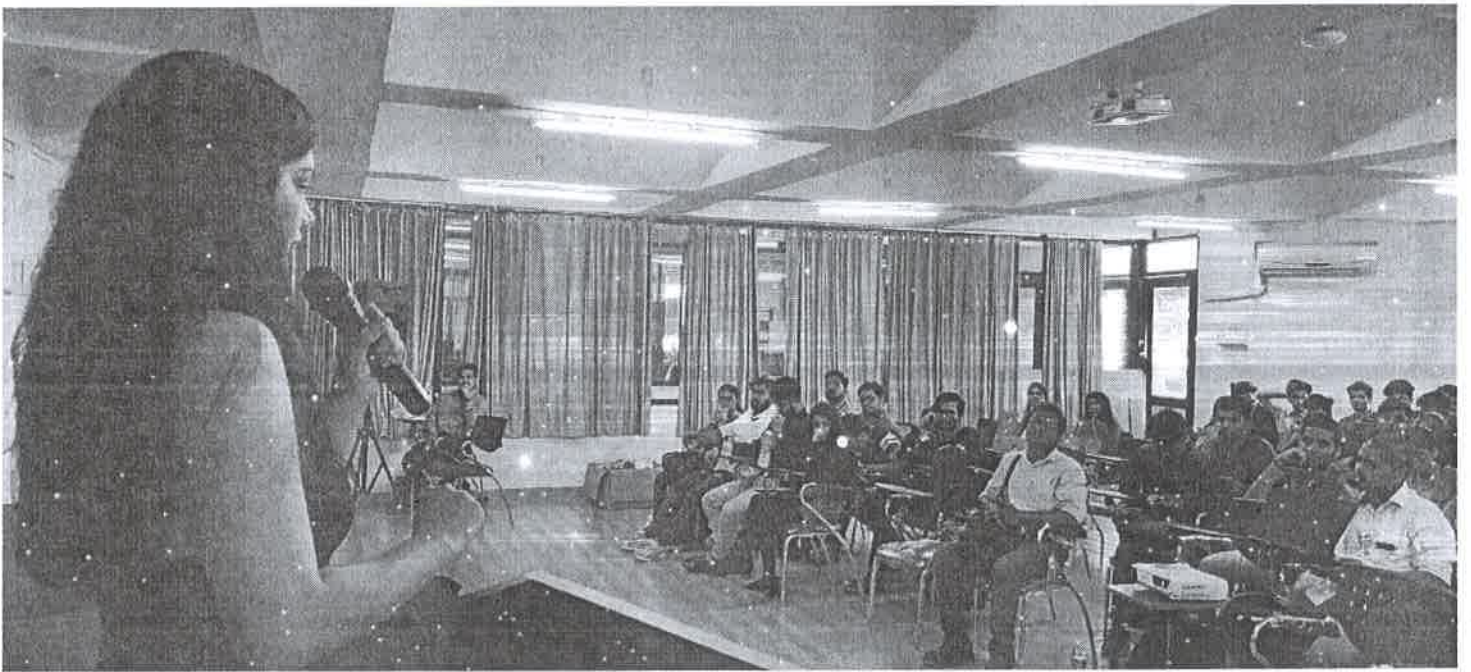
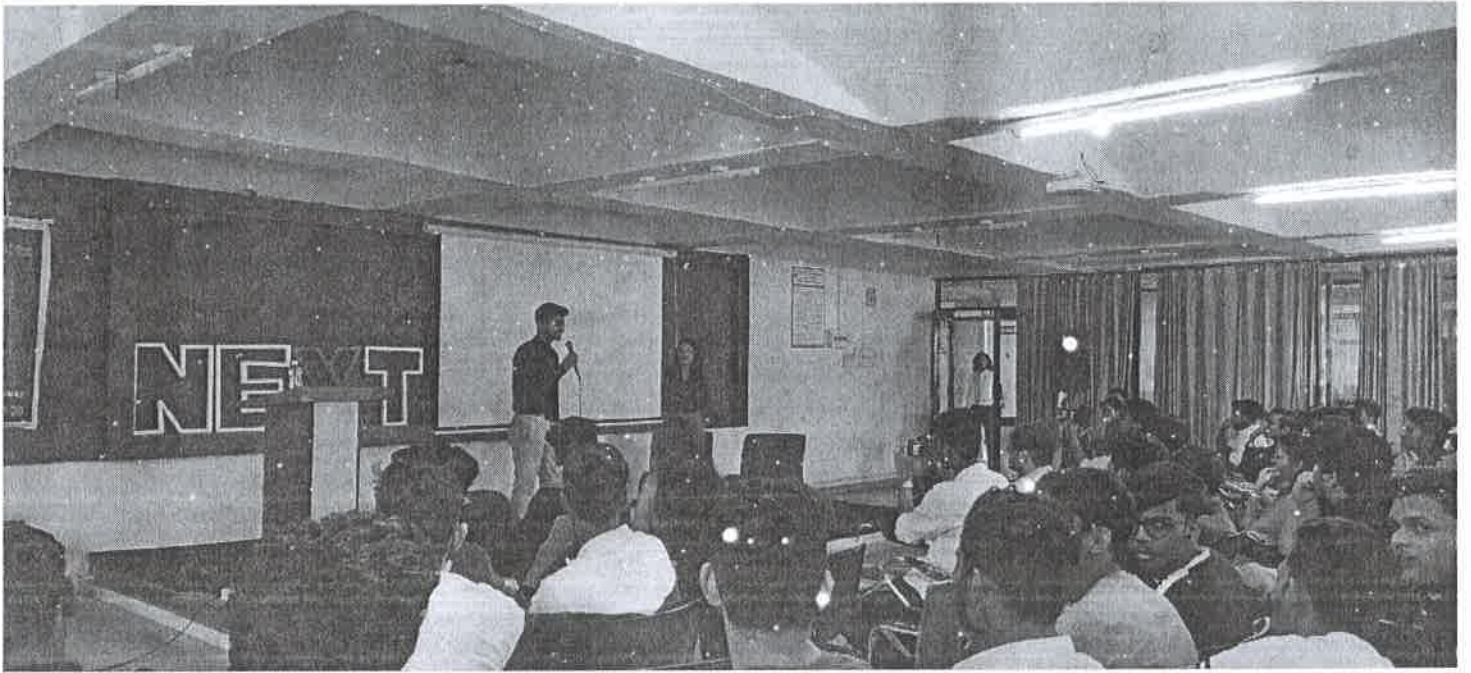
Home Club	60	Alumini	2
DCM	3	PIS	0
Rotarians	0	Guest	69
Other Club	0	Total	134




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SARASWATI Education Society's  
**SARASWATI College of Engineering**

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Academic Year 2019-20 (Even Semester)

Expert Seminar on  
**Trending Technologies for Project**



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Saraswati College of Engineering  
Kharghar, Navi Mumbai - 410210

Prepared By: Prof. Ragini Sharma

Received By: Prof. Diksha Kumar (HOD-IT)

Date: 30/01/2020



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**SARASWATI College of Engineering**

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Department of Information Technology  
Academic Year 2019-20[Even Semester]

**"Expert Seminar on Trending Technologies for Projects"**

**INDEX**

Sr. No.	Description
1.	Permission Letter
2.	Seminar Details
3.	Resume of resource person
4.	Attendance Sheet
5.	Feedback Letter



  
Seminar Coordinator

Prof. Ragini Sharma

  
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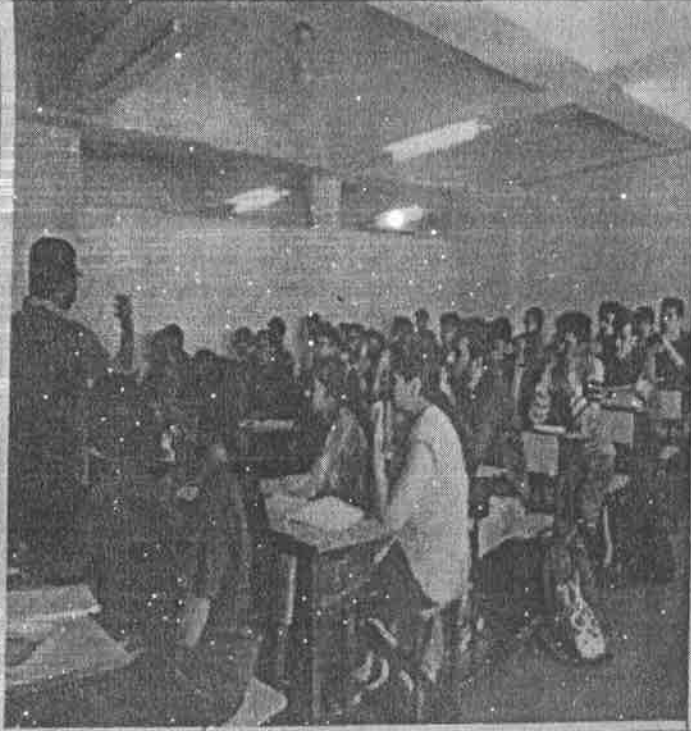
  
HOD

Prof. Diksha Kumar









*RS*  
Seminar Coordinator

Prof. Ragini Sharma

*CS*  
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Saraswati College of Engineering  
Kharghar, Navi Mumbai-410210

*D.K.*  
HOB

Prof. Diksha Kumar







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**Report on**  
**One day workshop on**  
**SQL and ORDBMS**

Date: 9/3/20

**Workshop name:** - SQL(structured query language) & ORDBMS (Object Relational Database Management Systems)

**Venue:** - Saraswati college of engineering, kharghar

**Class:-** T.E. EXTC

**Number of Students:-** 72

**Workshop Experts :-** Prof. Tushar Ghorpade & Prof . Aditi Chhabria

**Staff coordinator:** - Prof. Vijay Kapure

**Date:** - 4<sup>th</sup> march 2020

  
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One day workshop was organized for Third year students of Electronics and telecommunication students on 4<sup>th</sup> march 2020. Prof. Tushar and prof. Aditi, Faculty from R.A.I.T Nerul were the experts for this workshop. The experts were introduced and felicitated with a token of appreciation. The morning session was started with the introduction of DBMS and its relevance in EXTC branch. Various aspects related to bigdata analysis, data science and the points combining extc student to IT industry were briefly discussed by prof. Tushar G.





The second half of morning session was handed over to prof. Aditi Chhabria who deeply explained the ERD diagram to students with examples. The morning session was ended with a brainstorming session wherein all the students were involved for preparation of ERD on case studies provided.

After breaking out for Lunch, the session started with the SQL queries and solutions. Since it was a part of DBMS curriculum, I was a very good revision experience for the students. In order to make students active in the session, presentations were carried out on the case studies and the winners were felicitated with token of love from the organizers.

The day was ended with the introduction of ORDBMS (Object Relational Database Management Systems), which is one of the important topic in DBMS and has more practical exposure with respect to industry. The session was ended with a prolonged interaction with the students wherein the doubts were addressed by the experts.

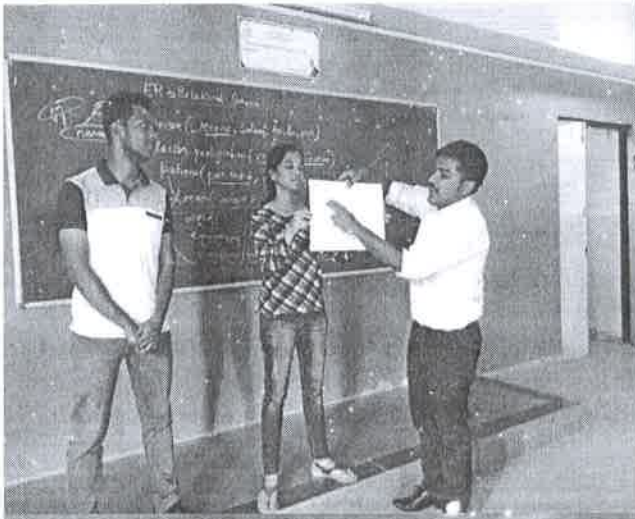
The day was concluded with the valedictory ceremony, where the experts were graced by delivering vote of thanks by Prof. Vijay Kapure, Coordinator. The workshop was ended with a group photograph of the students and staffs involved in this One-day workshop.



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*R*

**Prof. Vijay Kapure**  
**Coordinator EXTC**

*Neha*

**Prof. Neha Mahajan**  
**H.O.D EXTC**

*07*

**Dr. Manjusha Deshmukh**  
**Principal, SCOE**

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2019-20