

Mechanical Engineering Department

Cultural / Co-curricular/ Extra-curricular Activities

AY 2019-2020 (EVEN Semester)

Departmental Activities Incharge: Mr. Dhiraj Bhandarkar

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Sr. No.	Activity Name	Activity Type (Workshop/ Conference/Webinar etc.)	Start & End DD/MM/YY	Page Number
1	State level inter university research competition "Avishkar- 2019"	Competition	03 rd Jan. 2020	01 – 06
2	E-bike racing challenge organized by AMT MotoCorp, O.P. Jindal University, Raigarh, Chhattisgarh	Competition	13 th to 16 th Jan. 2020	07 – 13
3	Technocrats Electrical Go kart championship (TEGKC) -2020	Competition	13 th Jan to 15 th Feb 2020	14 – 16
4	Three days' Workshop on Soft Skills Training	Workshop	06 th to 08 th Feb. 2020	17 – 20
5	Aero Design Challenge -2020	Competition	29 th Feb to 03 rd March 2020	21 – 22
6	National Electric kart Championship (NEKC) -2020	Competition	02 nd to 05 th March 2020	23 – 25
7	General Awareness Online Quiz on COVID-19	Online Quiz	02 nd to 03 rd May 2020	26 – 27
8	Basics of Mechanical Engineering	Online Quiz	21 st to 31 st May 2020	28 – 29
9	One week Online Faculty Development on Program on "Open-FOAM"	Workshop	01 st to 07 th June 2020	30 – 34
10	Two days online workshop on "Project-Based Learning".	Workshop	03 rd to 04 th June 2020	35 – 36
11	Introduction to Competitive Examinations (For first year students)	Expert Talk	06 th June 2020	37 – 37
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13	Introduction to Competitive Examinations (For Mechanical Department students)	Expert Talk	14 th June 2020	43 – 43
14	Career Opportunities after B. Tech in Mechanical Engineering	Expert Talk	28 th June 2020	44 – 44



SHRI VILE PARLE KELAVANI MANDAL'S INSTITUTE OF TECHNOLOGY, DHULE

Avishkar- 2019

Avishkar is a **state level inter university research competition** started in 2006 with the initiative of our honorable governor Shri. S. M. Krishna. As a part of this event we at SVKM'S IOT, Dhule have conducted department level competition on 17th oct 2019 and **institute level avishkar competition on 19th Oct. 2019.**

Total 32 students were participated in this event from 5 departments along with first year students at under graduate level and total 6 participants are selected for zonal level competition. Our students have done projects in different disciplines like engineering and technology, Agricultural and animal husbandry, Management and pure science.

The institute level avishkar event was started with the felicitation of respected principal sir and all the heads of department. The introduction of Avishkar has been given by our institute avishkar coordinator Prof. Dattatray Doifode. After that our respected principal Dr. Nilesh Salunke gave valuable guidance to students. The evaluation of projects of the participants were carried out by our all the heads of department who were Dr. Vishal Moyal, Dr.shrikant Randhavane, Dr. Tushar Shinde, Prof.Mohammed Juneduddin, Prof.khalid Alfatmi. The judges gave valuable suggestions to the students.The participants have done excellent work in their projects within a short duration. The judges were happy and excited with the performance of all the students. The certificates are given to all the participants and winners of department and institute level round.

We feel very happy to share that out of our 6 students who were qualified for zonal level round, 2 of them are the winners of zonal level round and they are qualified for university level round which is going to be held on 3rd January 2019 at DBATU campus. Their names are Mr. Rahul Sharma (Mechanical Engineering Dept.) and Mr. Jaikumar Patil (civil Engineering Dept.). **Mr. Rahul S. Sharma won the 2nd prize in university level round and qualified for state level round of avishkar 2019-20.** We feel this is a great achievement of our students in state level competition. Our management, principal and teachers have congratulated the students on their success.

Finally we like to thank our management and our respected principal sir for their cooperation, motivation and inspiration at every stage of this event.

Photographs of Avishkar Event:



Participants Selected For Institute Level Round



Judges of Institute level Round with Principal sir



Winners of Institute level Round



Student's Participation in Zonal Level Round



Winner of Zonal Level Avishkar Round Mr.Jaikumar Patil



Mr Rahul Sanjay Sharma Winner of University level round of Avishkar 2019-20.



Principal Dr Nilesh Salunke felicitated Mr Rahul Sharma for selection in state level round of Avishkar



**SHRI VILE PARLE KELAVANI MANDAL'S
INSTITUTE OF TECHNOLOGY, DHULE**
Department of Mechanical Engineering

It's a Proud Moment for SVKM's Institute of Technology, Dhule to achieve one more success at National level.

A team of Mechanical Engineering Students Participated and awarded as the Best Team in EBRC- E bike racing challenge organized by AMT MotoCorp during 13 Jan to 16 Jan 2020, held at O.P. Jindal University, Raigarh, Chhattisgarh.

The team leader of "E-Torc" Mr Vinay Kulkarni from Third Year Mechanical Engineering shared his views on the Efforts taken in last six months by his team and how they achieved All India Rank 4th at National level.

The team "E-Torc" took extensive efforts apart from the curriculum to learn the E-Bike concepts under the persistent guidance and encouragement from Principal Dr. Nilesh Salunke, Head of the Department Prof. Mohammed Juneduddin and all staff of Mechanical Engg. Department for such glorious achievement, the team is congratulated by the SVKM's management and special appreciation by Hon Principal Dr. Nilesh Salunke.



Team Receiving the Best Team Award







E bike made by SVKM's IOT students



Best Team award received







**SHRI VILE PARLE KELAVANI MANDAL'S
INSTITUTE OF TECHNOLOGY, DHULE**
Department of Mechanical Engineering

It's a Proud Moment for SVKM's Institute of Technology, Dhule to achieve one more success at National level.

A team of 25 engineering students had Participated and awarded for **Overall Runner Up (Cash prize ₹ 60,000/-)** and **best skid pad performer (cash prize ₹ 6000/-)** in "TEGKC-2020" Electric go kart championship during 13 Jan to 15 February 2020, held at TIT, Bhopal, Madhya Pradesh.

The team leader of "S-Falcon" **Mr. Durgesh Borse** and Kart rider **Mr. Jayesh Bhamare** of Third Year Mechanical Engineering shared his views on the Efforts taken in last two months by their team under the Guidance of **Prof. Yogesh Sonawane** and **Prof. Bhushan Behede** and how they achieved **All India Rank 2nd** at National level.

The team "S-Falcons" took extensive efforts apart from the curriculum to learn the E-Go Kart concepts under the persistent guidance and encouragement from Principal **Dr. Prof. Nilesh Salunke**, Head of the Department **Prof. Mohammed Juneduddin** and all staff of Mechanical Engg. Department for such glorious achievement, the team is congratulated by the SVKM's management and special appreciation by Hon Principal **Dr. Prof. Nilesh Salunke**.







Spoken Tutorial

Activity Report

of

Three days Workshop

‘06th Feb to 08th Feb 2020’

On

“Soft Skills Training”

**Organized by,
Department of Mechanical Engineering,
Shri Vile Parle Kelavani Mandal’s
Institute of Technology,
Dhule**

Activity Report

Aim: To encourage the all-round development of students by focusing on soft skills.

Objective: To nurture the soft skills of the students through individual and group activities.

Name of Program: Three days workshop on 'Soft Skills Training'

Date: From 06th February 2020 to 08th February 2020

Convener: Mr. Mohammed Juneduddin

Organizing Team: 1. Mr. Dhiraj Bhandarkar
2. Mr. Prakash Katdare

Participants: (69 SE & 65 TE) Students from Mechanical Engineering stream.

Outcomes: Participants learned:

- 1) Effectively communicate through verbal/oral communication and improve the listening skills.
- 2) Actively participate in group discussion / meetings / interviews and prepare & deliver presentations.
- 3) Become more effective individual through goal/target setting, self-motivation and practicing creative thinking.

Schedule:

Date	Session-1	Session-2
06-02-2020	10:00 AM To 12:00 Noon	01:00 PM To 05:00 PM
07-02-2020	10:00 AM To 12:00 Noon	01:00 PM To 05:00 PM
08-02-2020	10:00 AM To 12:00 Noon	01:00 PM To 05:00 PM

Conduction of event:

Session was conducted by eminent speakers namely, Mr. Neville Meheta & Ms. Karishma Ahuja from NMIMS Mumbai campus.



Post Workshop photo session



Classroom activity during Workshop



SHRI VILE PARLE KELAVANI MANDAL'S INSTITUTE OF TECHNOLOGY, DHULE

Department of Mechanical Engineering

We are happy to inform you that our SVKM's Institute of Technology, Dhule has achieved one more success at the National Level.

A team of 07 engineering students had participated in the event "*Aero Design Challenge -2020*" during 29 Feb to 3 Mar 2020, held at SAE INDIA, Coimbtore, Tamilnadu. The team secured *Overall Rank 10 (AIR-10) out of 150 teams at National level* and it also secured *Rank 4 (AIR-4) for Technical Presentation, Rank 5 (AIR-5) for Flight Round*

The team leader of "*M-Mobulas*" **Mr. Bhojraj Jadhav** and his team members took a lot of effort under the guidance of **Prof. Satish Patil** and how they achieved success at National Level.

The team "*M-Mobulas*" took extensive hard work apart from the curriculum to learn the Aero modelling concepts under the persistent guidance and encouragement from Principal **Dr. Prof. Nilesh Salunke**, Head of the Mechanical Department **Prof. Mohammed Juneddudin**, Head of the Electrical Department **Dr. Vishal Moyal** and all staff of Mechanical Engineering Department for such glorious achievement, the team is congratulated by the SVKM's management and special appreciation by Hon. Principal **Dr. Prof. Nilesh Salunke**.



The team going for the event



Flight Round at Event completed



Technical Inspection Cleared



**SHRI VILE PARLE KELAVANI MANDAL'S
INSTITUTE OF TECHNOLOGY, DHULE**
Department of Mechanical Engineering

We are happy to inform you that our SVKM's Institute of Technology, Dhule has achieved one more success at the National Level.

A team of 21 engineering students had participated and awarded for **Skidpad Winner (Cash Prize ₹ 10,000/-)**, **Autocross Winner (Cash Prize ₹ 10,000/-)**, **Drag Race Runner Up (Cash Prize ₹ 5000/-)**, **Blind Test Runner Up (Cash Prize ₹ 5000/-)** and **Best Standee (Cash Prize ₹ 5000/-)** in "NEKC-2020" Electric go-kart championship during 2 Mar to 5 Mar 2020, held at MSME, Bhopal, Madhya Pradesh.

The team leader of "S-Falcons" **Mr. Samar Thorat** and kart rider **Mr. Jayesh Bhamare** took a lot of effort along with the team members under the guidance of **Prof. Yogesh Sonawane** and **Prof. Bhushan Behede** and how they achieved success at National Level.

The team "S-Falcons" took extensive hard work apart from the curriculum to learn the E-Go Kart concepts under the persistent guidance and encouragement from Principal **Dr. Prof. Nilesh Salunke**, Head of the Department **Prof. Mohammed Juneddudin** and all staff of Mechanical Engineering Department for such glorious achievement, the team is congratulated by the SVKM's management and special appreciation by Hon. Principal **Dr. Prof. Nilesh Salunke**.



Electric Go-kart of NEKC-2020 Competition



Award Ceremony at MSME, Bhopal, Madhya Pradesh



Awards Achieved By “S-Falcons” in NEKC 2020



Shri Vile Parle Kelavani Mandal's Institute Of Technology
Survey No. 499, Plot No 02, Behind Gurudwara, Mumbai Agra National Highway,
Dhule -424 001, Maharashtra, India
Office Phone: 02562-297801 / 297601, Fax : 02562-297801,
Mail: IOTDhule@svkm.ac.in

Ref:SVKM/IOT/MECH/2020/EVENTS/COVID-19-GAT:

REPORT

Name of the EVENT	<i><u>COVID-19 general awareness online test</u></i>
Date/Duration	2nd & 3rd May-2020
Number of people/students attended/Participated in the event	500 Participants
Number of people/students received the participants	388 Participants have received the Certificates
Type of the participants	General Public, any indian citizen
Region Covered of the participants	National Level
Platform/Mode of event conduction	Online Quiz
Name of the event organiser/manager	Mohammed. Juneduddin
Name of the Department	Mechanical Engineering Department
Name of the Organizing Institute	Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule
Sample document attached	Yes/Sample Certificate

(Mr.Mohammed.Juneduddin)
Coordinator: Mechanical Engineering Department
(SVKM's IOT, Dhule)



Shri Vile Parle Kelavani Mandal's
Institute of Technology, Dhule



CERTIFICATE OF APPRECIATION

COVID-19-General Awareness Test

This certificate is awarded to Mr./Ms./Mrs: Pankaj Mahesh Jangid for participating in the **COVID-19 general awareness test** and successfully completing it. This event is organized by Shri Vile Parle Kelavani Mandal's Institute Of Technology, Dhule in association with *Unnat Bharat Abhiyan (UBA)-MHRD-Govt of India.*

(Mr. Mohammed Juneduddin)

Unnat Bharat Abhiyan (Project Coordinator)
(SVKM's IOT, Dhule)

(Dr. Nilesh Salunke)

Principal
(SVKM's IOT, Dhule)

Shri Vile Parle Kelavani Mandal's Institute Of Technology,

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Institute website: <http://www.svkm-iot.ac.in/>

Facebook url: <https://www.facebook.com/Svkmiot> Youtube Channel: <https://www.youtube.com/channel/UCgHSoUg863WYMydl-bw12aQ>

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Ref:SVKM/IOT/MECH/2020/EVENTS/Quiz_Mech3:

REPORT

Name of the EVENT	<i>Online Quiz: Basics of Mechanical Engineering</i>
Date/Duration	21st May- 31st May-2020
Number of people/students attended/Participated in the event	1429 Participants
Type of the participants	Mechanical Engineering Student (B.Tech/B.E, Diploma. M.Tech/M.E).
Region Covered of the participants	National Level
Number of people/students received the certificates	990 Participants have received the Certificates
Platform/Mode of event conduction	Online Quiz
Name of the event organiser/manager	Mohammed. Juneduddin
Organizing Team (Faculty members)	1) Mr.Yogesh Sonawane 2) Mr.Satish Patil 3) Mr.Mahesh Dalwani 4) Mr.Bhushan Behede 5) Mr.Dattatray Doifode 6) Mr.Prakash Katdare 7) Mr.Dhiraj Bhandarkar
Name of the Department	Mechanical Engineering Department
Name of the Organizing Institute	Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule
Sample document attached	Yes/Sample Certificate

Mr.Mohammed.Juneduddin,
Coordinator: Mechanical Engineering Department,
SVKM's IOT, Dhule.

Institute website: <http://www.svkm-iot.ac.in/>

Facebook url: <https://www.facebook.com/Svkmiot>

Youtube Channel: <https://www.youtube.com/channel/UCgHSoUg863WYMydl-bw12aQ>

CERTIFICATE



Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule Certificate of Completion

This certificate is awarded to

Mr/Ms/Mrs/: Karan Krishna Sharma

**For successfully completing the online quiz on,
Fundamental concepts of Mechanical Engineering & General Aptitude Test,
Organized by the *Mechanical Engineering Department* of,
Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule.**

Date: 21-5-2020

NCQO14-CE0000
13

Mr. MOHAMMED. JUNEDUDDIN
Coordinator: Mechanical Engineering Department,
SVKM's IOT, Dhule

Dr. NILESH SALUNKE
Principal,
SVKM's IOT, Dhule

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Youtube Channel: <https://www.youtube.com/channel/UCgHSoUg863WYMydl-bw12aQ>



Spoken Tutorial

Activity Report

of

One Week Online Faculty Development Program

‘01st June to 07th June 2020’

On

“OpenFOAM”

Organized by,
**Department of Mechanical Engineering,
Shri Vile Parle Kelavani Mandal’s
Institute of Technology,
Dhule**

In association with

**Spoken Tutorial,
Indian Institute of Technology,
Bombay**

Activity Report

Aim: To utilize lockdown period for self-improvement in faculties

Objective: To inculcate faculty with advance tools of teaching and learning process

Name of Program: One week online faculty development program on ‘OpenFOAM’

Date: From 01st June to 07th June 2020

Convener: Mr. Mohammed Juneduddin

Organizing Team: 1. Mr. Dhiraj Bhandarkar
2. Mr. Prakash Katdare

Learning Material: Spoken Tutorial, IIT Bombay

Participants: 227 (Various faculties from different disciplines from various parts of Maharashtra).

Outcomes: Participants learned:

- 1) To enhance skills in OpenFOAM.
- 2) To install OpenFOAM and ParaView.
- 3) To bridge a gap between current market requirement and academics.

The pandemic COVID-19 has necessitated drastic measures like social distancing, staying indoors to be taken to fight against it. Needless to say, these are challenging times that we are living in. To utilize this time offered by this control measures in self-improvement and knowledge enhancement, such program is initiated by our institute. In collaboration with Spoken Tutorial, IIT Mumbai, Department of Mechanical Engineering, SVKM’s Institute of Technology organized one-week online faculty development program from 01st June to 07th June 2020. Total 225 faculties from all over India has participated in this event and got certified successfully.

A comprehensive set of topics pertaining to Open FOAM and CFD were covered in the workshop. The course material was provided on Spoken Tutorial platform of **IIT Mumbai**. Spoken Tutorial is an initiative by the National Mission on Education through Information and Communication Technology (ICT) launched by the **Ministry of Human Resources and Development (MHRD)**, Government of India and is being developed by IIT Mumbai.

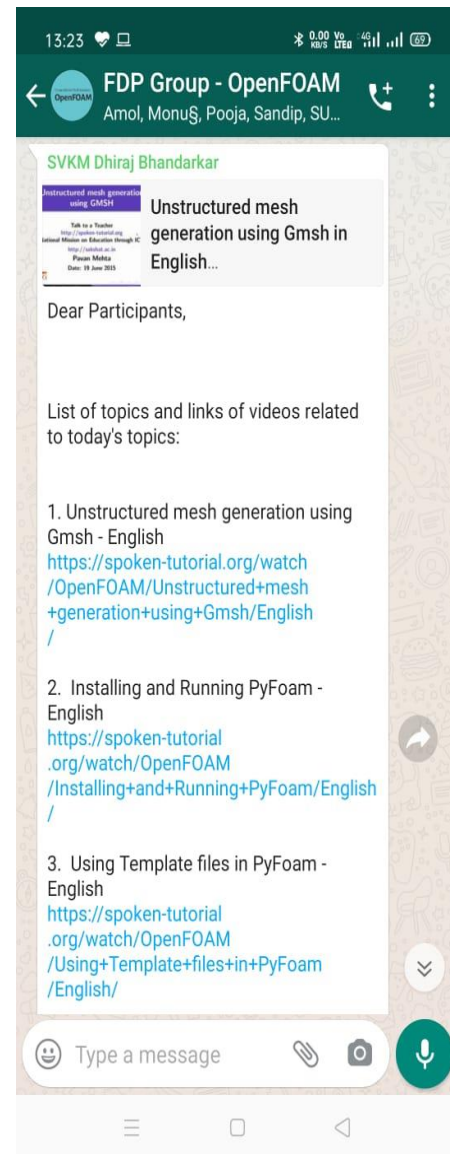
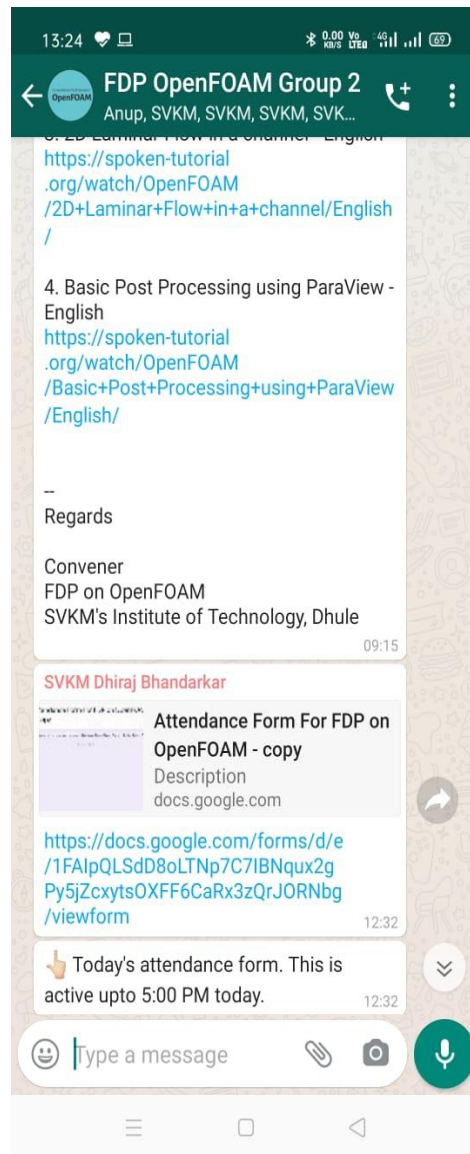
The inauguration was carried out on online platform by Hon. Principal Dr. N. P. Salunke.

Schedule:

Date	10:00 AM - 10:30 AM	11:00 AM - 12:30 PM
	Session-1	Session-2
1-Jun-20	Inauguration at 10:00 AM FDP on OpenFOAM - Dr. Nilesh Salunke	Introduction to OpenFOAM Creating simple geometry in OpenFOAM Creating curved geometry in OpenFOAM
	10:00 AM - 12:30 PM	
	Session-1	
2-Jun-20	Simulating flow in a Lid Driven Cavity Supersonic flow over a wedge 2D laminar flow in a channel Basic Post Processing using ParaView	
3-Jun-20	Turbulent Flow in a Lid driven Cavity Flow over a flat plate Simulating Hagen Poiseuille flow Downloading and installing Salome	
4-Jun-20	Creating and meshing a curved pipe geometry in Salome for OpenFOAM Exporting geometry from Salome to OpenFOAM Introduction to SnappyHexMesh Generating Mesh using snappyHexMesh	
5-Jun-20	Importing mesh file in OpenFOAM Installing and running Gmsh Creating and Meshing aerofoil in Gmsh Creating a sphere in GMSH	
6-Jun-20	Unstructured mesh generation using Gmsh Installing and Running PyFoam Using Template files in PyFoam Using PyFoam Utilities	
	10:00 AM - 11:00 AM	11:30 AM - 12:00 Noon
	Session-1	Session-2
7-Jun-20	Online Exam	Feedback

Conduction of event:

Study material is available on Spoken Tutorial platform. Participants need to watch assigned videos on daily basis and solve quiz based on videos. The exchange of information regarding video links and daily quizzes has done on WhatsApp group made for event. Certificates have distributed based upon daily quiz and final quiz submission.



Instruction through WhatsApp group



A sample certificate for FDP from SVKM's IOT, Dhule



A sample certificate for FDP from Spoken Tutorial, IIT Mumbai



Name of Activity	Photos of event
<p>The Project Based Learning (PBL). The workshop was held during 3rd and 4th June 2020 on Microsoft Team Live Event Platform. Total participants: 174 students Certificates issued: Yes</p>	
<p>The project-based learning approach creates a constructive learning environment in which students built their own knowledge & skill base. In order to enhance such learning environment SVKM's IOT organized an Online Two-Days Workshop for Diploma Engineering students under the title "The Project Based Learning". The workshop was held during 3rd and 4th June 2020 on Microsoft Team Live Event Platform.</p>	
<p>The workshop progressed as follows: 3rd June 2020, Day-1/Session-1: Opening Speech</p>	<p>Figure 1: Online live event introduction</p>
<p>The workshop opening speech was delivered by the Head of Mechanical Engineering Department Prof. Mohammed Juneduddin. He welcomed the Honorable Principle of SVKM's Institute of Technology, Dhule. Prof. Dr. Nilesh Salunke. The principal addressed the participants about the scope and importance of PBL and opportunities available at SVKM's IOT, Dhule for implementation and deployment of the same.</p>	
<p>Prof. Mohammed Juneduddin introduced to the participants various facilities available at the institutes and briefly explained about the Project-based learning approach of the SVKM's IOT students. He further explained the opportunity for the students to develop knowledge and skills through engaging in projects set around by the real life challenges and problems.</p>	<p>Figure 2 Demonstrated video of practice session in online event</p>
<p>3rd June 2020, Day-1/Session-2: The automobile based events</p>	
<p>Prof. Yogesh Sonawane and his team of the students "S-FALCON" and "E-Torc" presented in second session. Prof. Yogesh Sonawane introduced the opportunities in various automobile-based events available for the students throughout the year such as Eco-kart and E-Bike, TEGKC, NEKC, SAEINDIA Events, etc. The captains of both</p>	<p>Figure 3: NEKC-Award Ceremony</p>

the teams shared their experiences and Technical Knowledge gained ,about their event. Mr. Rahul Sharma and Mr. Vinay Kulkarni (Third year Mechanical engineering student, Team Captain S-Flacon and E-Torc) and their team explained about their journey and achievements in Eco-kart & E-Torc.

3rd June 2020, Day-1/Session-3: The Automobile based events

In the third session Prof. Bhushan Behede explained about the events including TEGKC (Technocrats Electrical Go kart championship) and NEKC (National Electric kart Championship). Mr. Durgesh Borase (Captain of TEGKC) and Mr. Samar Thorat (Captain of NEKC Event) explained their journey to the event and their achievements.

4th June 2020, Day-2/Session-1: Aero modelling

On the second day Prof. Satish. R. Patil and his team “M-MOBULAS” discussed and presented about various Aeromodelling/Aero-Dynamic based events. Prof. Satish. R. Patil explained the purpose of these competitions that, these competitions are arranged and conducted with the intension of providing undergraduate and graduate engineering students a real-life engineering challenge & exposure to the kinds of situations that engineers face in their real-life work environment. Each team is required to conceive, design and develop a prototype of fixed wing UAV meeting the mission requirements.

Mr. Bhojraj Jadhav (Captain of Team M-Mobulas) explained about Aero Design Challenge. He shared his experience about the event and discussed that this event is to promote and develop Indian expertise and experience in unmanned systems technologies at the university and college levels.

4th June 2020, Day-2/Session-2: The Avishkar

In this session Prof. Dattatray Doifode gave an exposure to the participant about different competitions organised by university, AICTE and support of institute to students in terms of Mentoring, Availability of resources financial supports, etc.



Figure 4 Practice session at



Figure5:Team M.Mobulas secured 10th AIR



Figure6: Ebike Team receiving awards



Figure 7: Principal Dr Nilesh Salunke felicitated Mr Rahul Sharma for being selected in state level round of Avishkar

**SVKM's Institute of Technology
Department of Mechanical Engineering**

Guest Lecture on 'Introduction to Competitive Examination'

The guest lecture was conducted by **Mr. Rahul Mali** on **6th June 2020**, for all the students of first year department. **Mr. Rahul Mali** is working as the **Assistant Engineer** in **PWD department of Government of Maharashtra**.

Topics covered-

- Examination conducted by UPSC/MPSC,
- Choice of right competitive exams
- Right time to start
- How to prepare
- Android application of study
- Standard reference books
- Mood freshener techniques
- Concentration techniques

During two hours of session, students came to know about various competitive exams. Students were highly motivated by his guidance. Here are some snaps of session:

Content

- Introduction
- Examinations conducted by UPSC/MPSC
- Choice of right examination
- Right time to start preparation
- How to prepare?
- Android applications for study
- Standard reference books
- Mood Freshener techniques
- Concentration technics
- Q/A Session

For All Graduates:

- Civil Services Examination
- C.D.S. Examination
- N.D.A. & N.A. Examination
- CISF AC(EXE) LDCE
- Lecturer

BP RR CP KP NK PV AW YASH P

Guest lecture organized by: Mr. Mahesh Dalwani



Spoken Tutorial

Activity Report

of

One Week Online Workshop

‘09th June to 15th June 2020’

On

“Python Programming”

**Organized by,
Department of Mechanical Engineering,
Shri Vile Parle Kelavani Mandal’s
Institute of Technology,
Dhule**

In association with

**Spoken Tutorial,
Indian Institute of Technology,
Bombay**

Activity Report

Aim: To utilize lockdown period for self-improvement in students

Objective: To inculcate students with advance tools of teaching and learning process

Name of Program: One-week online workshop on 'Python Programming'

Date: From 09th June to 15th June 2020

Convener: Mr. Mohammed Juneduddin

Organizing Team: 1. Mr. Dhiraj Bhandarkar
2. Mr. Prakash Katdare

Learning Material: Spoken Tutorial, IIT Bombay

Participants: 776 (Various students from Mechanical Engineering stream from various parts of Maharashtra).

Outcomes: Participants learned:

- 1) To enhance skills in Python Programming.
- 2) To install Python Programming.
- 3) To bridge a gap between current market requirement and academics.

The pandemic COVID-19 has necessitated drastic measures like social distancing, staying indoors to be taken to fight against it. Needless to say, these are challenging times that we are living in. To utilize this time offered by this control measures in self-improvement and knowledge enhancement, such program is initiated by our institute. In collaboration with Spoken Tutorial, IIT Mumbai, Department of Mechanical Engineering, SVKM's Institute of Technology organized one-week online faculty development program from 09th June to 15th June 2020. Total 726 students from all over India has participated in this event and got certified successfully.

A comprehensive set of topics pertaining to Python Programming were covered in the workshop. The course material was provided on Spoken Tutorial platform of **IIT Mumbai**. Spoken Tutorial is an initiative by the National Mission on Education through Information and Communication Technology (ICT) launched by the **Ministry of Human Resources and Development (MHRD)**, Government of India and is being developed by IIT Mumbai.

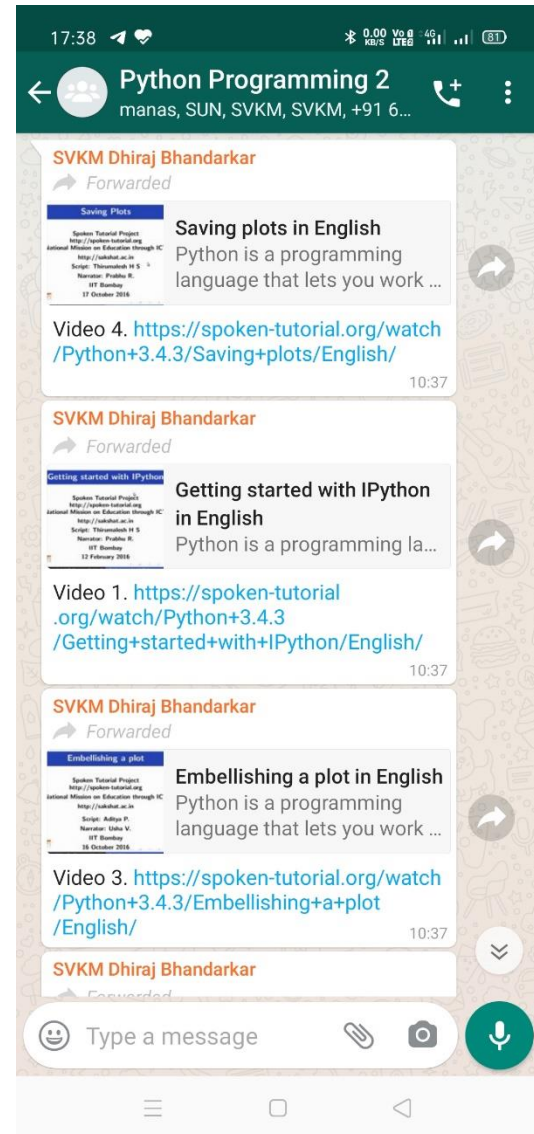
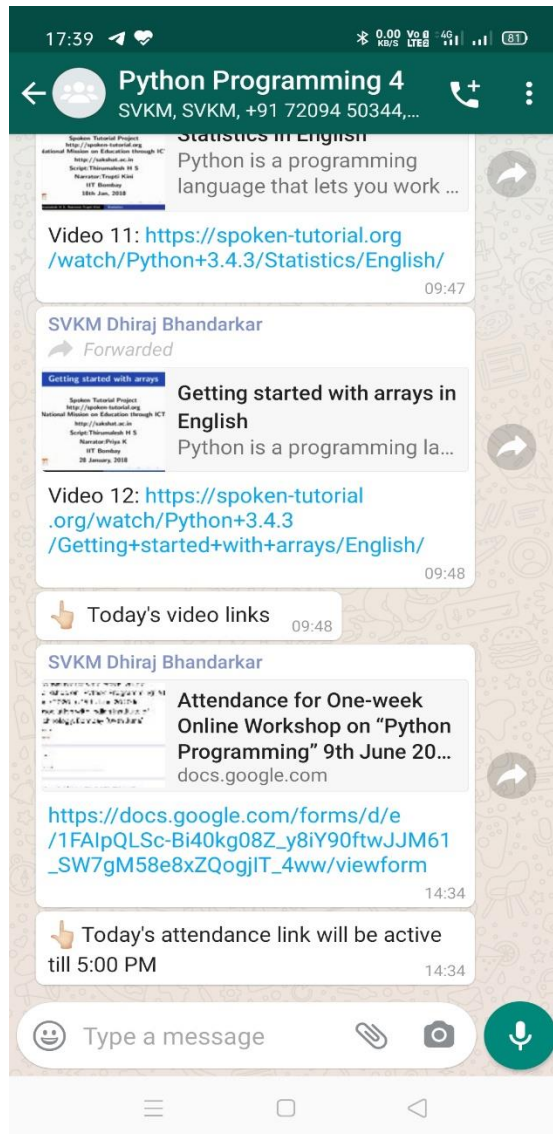
The inauguration was carried out on online platform by Hon. Principal Dr. N. P. Salunke.

Schedule:

Date	10:00 AM - 10:30 AM	11:00 AM - 12:30 PM
	Session-1	Session-2
9-06-20	Inauguration at 10:00 AM Online Python Workshop - Dr. Nilesh Salunke	1. Getting started with Ipython 2. Using plot command interactively 3. Embellishing a plot 4. Saving plots 5. Multiple plots 6. Subplots
	10:00 AM - 12:30 PM	
	Session-1	
10-06-20	1. Additional features of Ipython 2. Loading Data From Files 3. Plotting Data 4. Other Types of Plots 5. Plotting Charts 6. Getting started with Lists.	
11-06-20	1. Getting started with for 2. Getting started with strings 3. Getting started with files 4. Parsing data 5. Statistics 6. Getting started with arrays	
12-06-20	1. Accessing parts of arrays 2. Image manipulation using Arrays 3. Basic Matrix Operations 4. Advanced Matrix Operations 5. Least square fit 6. Basic datatypes and operators	
13-06-20	1. Input-output 2. Conditional Statements 3. Loops 4. Manipulating lists 5. Manipulating strings 6. Getting started with tuples	
14-06-20	1. Sets in Python 2. Getting Started with Functions 3. Advanced Features of Functions 4. Using Python Modules 5. Writing Python Scripts 6. Testing and Debugging	
	10:00 AM - 11:00 AM	11:30 AM - 12:00 Noon
	Session-1	Session-2
15-06-20	Online Exam	Feedback

Conduction of event:

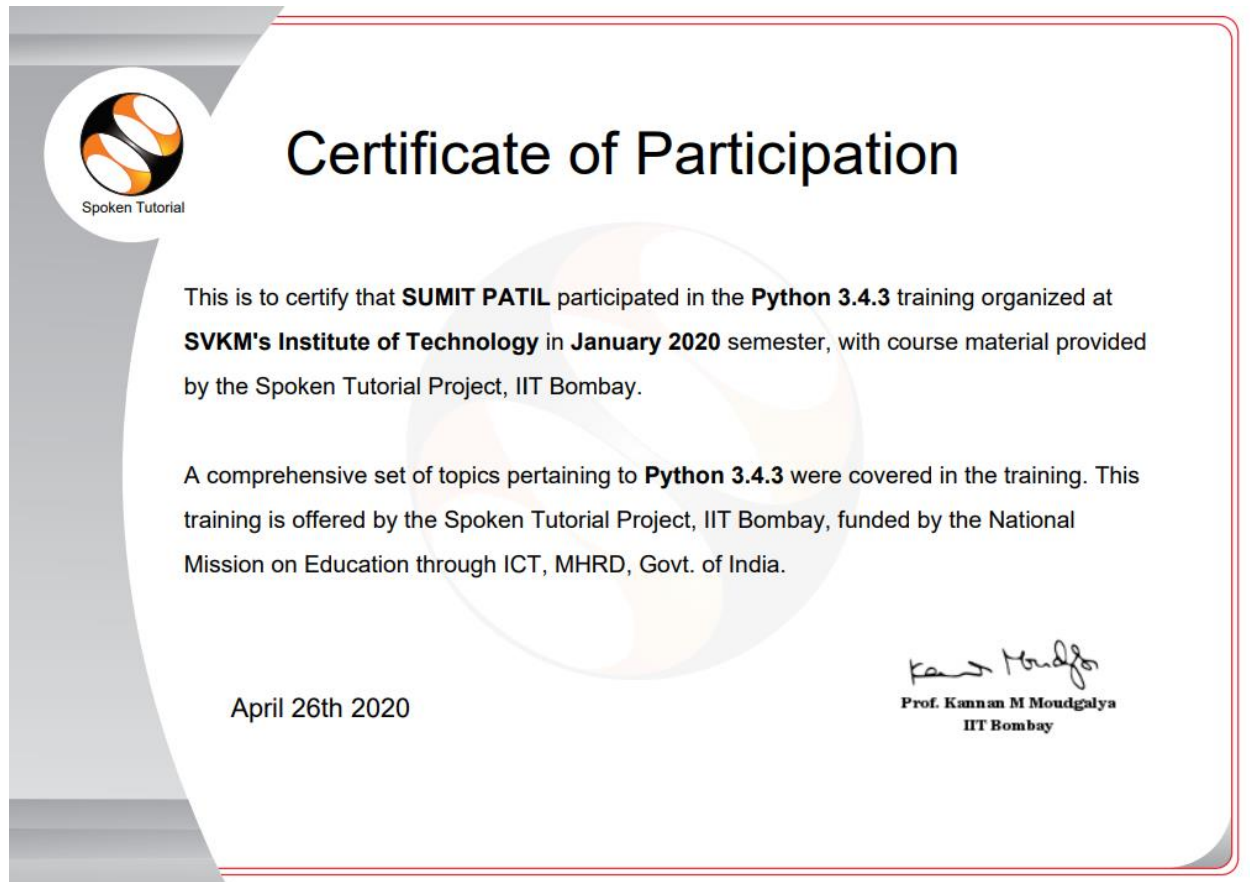
Study material is available on Spoken Tutorial platform. Participants need to watch assigned videos on daily basis and solve quiz based on videos. The exchange of information regarding video links and daily quizzes has done on WhatsApp group made for event. Certificates have distributed based upon daily quiz and final quiz submission.



Instruction through WhatsApp group



A sample certificate for Online Workshop from SVKM's IOT, Dhule



A sample certificate for Online Workshop from Spoken Tutorial, IIT Mumbai

**SVKM's Institute of Technology
Department of Mechanical Engineering**

Guest Lecture on 'Introduction to Competitive Examination'

The guest lecture was conducted by **Mr. Rahul Mali** on **14th June 2020**, for all the students of Mechanical Department. **Mr. Rahul Mali** is working as the **Assistant Engineer** in **PWD department of Government of Maharashtra**.

Topics covered-

- Examination conducted by UPSC/MPSC
- Choice of right competitive exams
- Right time to start
- How to prepare
- Android application of study
- Standard reference books
- Mood freshener techniques
- Concentration techniques

During two hours of session, students came to know about various competitive exams. Students were highly motivated by his guidance. Here are some snaps of session:



Guest lecture organized by: Mr. Mahesh Dalwani

**SVKM's Institute of Technology
Department of Mechanical Engineering**

Guest Lecture on -'Career Opportunities after BTech in Mechanical Engineering'

Mr. Divyesh Ubale conducted the guest lecture on **28th June 2020**, for all the students of Mechanical Department. **Mr. Divyesh Ubale** is working as the **Assistant Motor Vehicle Inspector** in **Government of Maharashtra**.

Topics covered-

- Examination conducted by MPSC,
- How to use LinkedIn
- MBA
- How to prepare for the jobs in industry
- Higher studies
- Standard reference books
- Mood freshener techniques
- Motor Vehicle rules

During two hours of session, students came to know about various competitive exams. Students were highly motivated by his guidance. Here are some snaps of session:

The image shows a screenshot of a Zoom meeting with two slides displayed side-by-side. The left slide has a yellow header and is titled "Private Sector Jobs". It contains three bullet points: "Campus selection: technical/core industries (specific to Mechanical Engg.);", "According to your interest select field design or thermal or production and select jobs in those fields; LinkedIn.", and "IT Sector jobs to work on mechanical/automobile related projects such as Infosys, Wipro, TCS etc.". The right slide has a purple header and is titled "Softwares". It contains the text "Some of the software which are a must for a Mechanical Engineering are:" followed by three bullet points: "Designing software", "Analysis software", and "Coding". At the bottom of the screen, there is a Zoom meeting control bar with icons for participants and a video player interface showing a pause button and a timer at 08:14.

Guest lecture organized by: Mr. Mahesh Dalwani