

Mechanical Engineering Department
Cultural / Co-curricular/ Extra-curricular Activities
AY 2018-2019 (EVEN Semester)

Departmental Activities Incharge: Mr. Dhiraj Bhandarkar

INDEX

Sr. No.	Activity Name	Activity Type (Workshop/ Conference/Webinar etc.)	Start & End DD/MM/YY	Page Number
1	Workshop on "Aero design and Aerospace modelling"	Workshop	24 th Feb. 2019	01 – 03
2	Eco-Kart 2K19 Dynamic Round	Competition (Dynamic Round)	4 th to 9 th April 2019	04 – 06



**SHRI VILE PARLE KELAVANI MANDAL'S
INSTITUTE OF TECHNOLOGY, DHULE-424001
DEPARTMENT OF MECHANICAL ENGINEERING**

WORKSHOP REPORT

Title of the Program: Aero design and Aerospace modelling

Number of Day(s): 01

Dates(s) of Conduction: 24th Feb. 2019

From 10:00 am **to** 4:30 pm

Venue: Class room 109

Number of Participants: 68 **Male:** 60

Female: 8

Program Objectives:

The program organised by MESA (Mechanical Engineering Student Association) with an aim to play a pivotal role in the development of students as engineers by various out-of-curriculum and extra-curricular activities. MESA aims to inculcate among its members an awareness and appreciation of the various disciplines of not just Mechanical Engineering but also other relevant fields.

The objective of workshop are:

1. Aiming to provide information about the basics of aeroplanes.
2. To encourage students to participate in different competitions with their own tem.
3. How to solve problems which they face during designing air vehicle.
4. Introduction of Software for designing of Air Vehicle.

Name & Contact Details of the Resource Person(s):

1. Mr. Rohit Kagane

Mobile:08329270217

Description of the workshop:

Aero design and aero modelling workshop involves the following points in which introductory session conducted. The activity is planned to support the design and development of small air vehicles. The essential components for the air vehicles

The Workshop Includes Following Points:

- 1. Introduction Of Air Vehicle**
 1. Forces acting on aircraft
 2. Parts of Aircraft
 3. Landing Gear
 4. How to calculate centre of gravity

- 2. Design**
 1. Types of wings
 2. Wing Position
 3. Types of landing gear
 4. Types of Radar

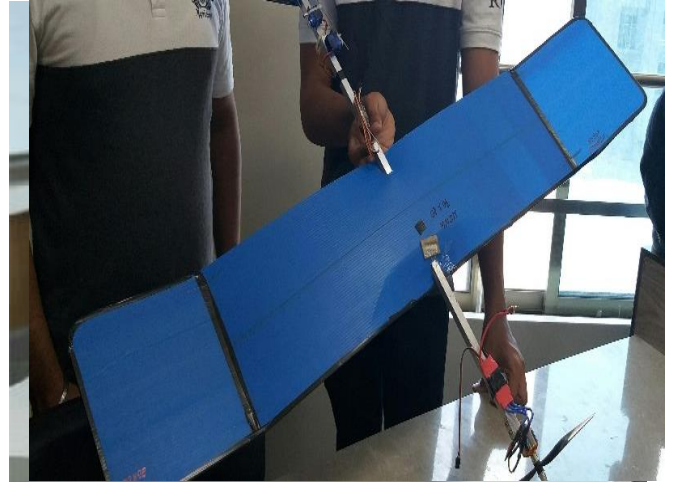
- 3. Electronics and software**
 1. Motor used for rotar
 2. Introduction of electronic speed control(E.S.C)
 3. Battery(Lion-Polymer)
 4. Receiver
 5. Software

- 4. Question And Answer**

- 5. Quiz competition**

Photographs of the workshop:





Prof. Satish. R. Patil
(Program Coordinator)

Prof .M. Juneduddin
(HOD, Mechanical Dept)

Dr. Nilesh. P. Salunkhe
(Principal)

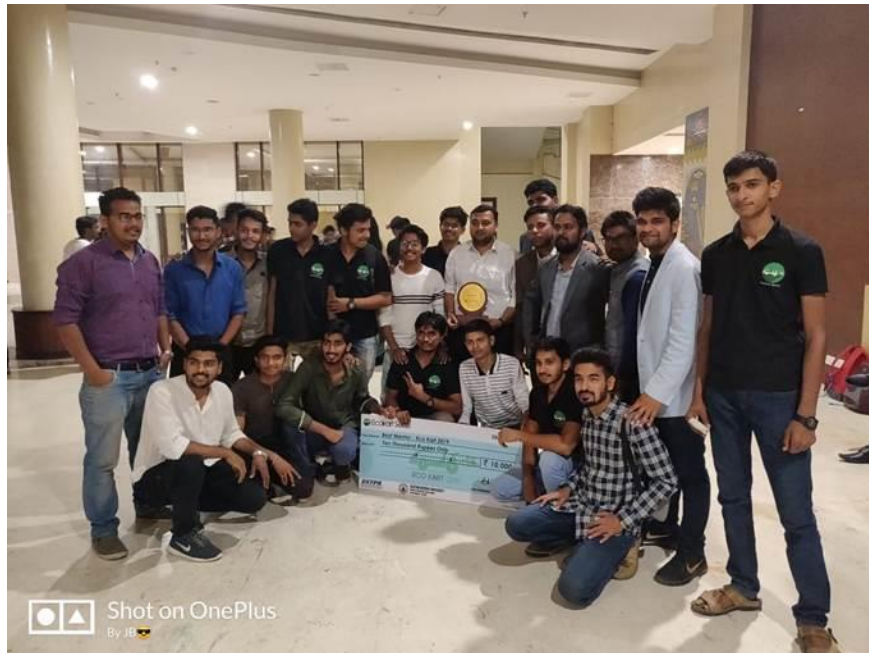
SVKM's Institute of Technology, Dhule

Department of Mechanical Engineering

Eco-Kart Series 2K19

The team "S-Falcons" of 15 Engineering students had participated in national level kart making and racing competition named "Eco-Kart Series 2K19". The competition was to design and fabricate a single passenger kart which is operated via battery as per given standards. This competition helped the students to build interest towards automobile and incorporate teamwork, technical skills and management skills themselves. The event was divided into 2 rounds, first was virtual round means a qualifier round in which students were judged how they have planned to proceed for the final event and held on 24th Nov 2018 at SVKM's Dhule campus. Second round was Dynamic round in which kart was tested on track for braking and acceleration, face off, turn table etc., held at Gautam Buddha University, Greater Noida during 4th- 9th April 2019. In this dynamic round team won "Best Mentor" award and nominated for safest kart and best innovations in different categories. Award was given to team Mentor Prof. Yogesh Sonawane with demo check of Rs. 10,000/- and trophy by hands of Chancellor Dr. Bhagwati Prakash Sharma.

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



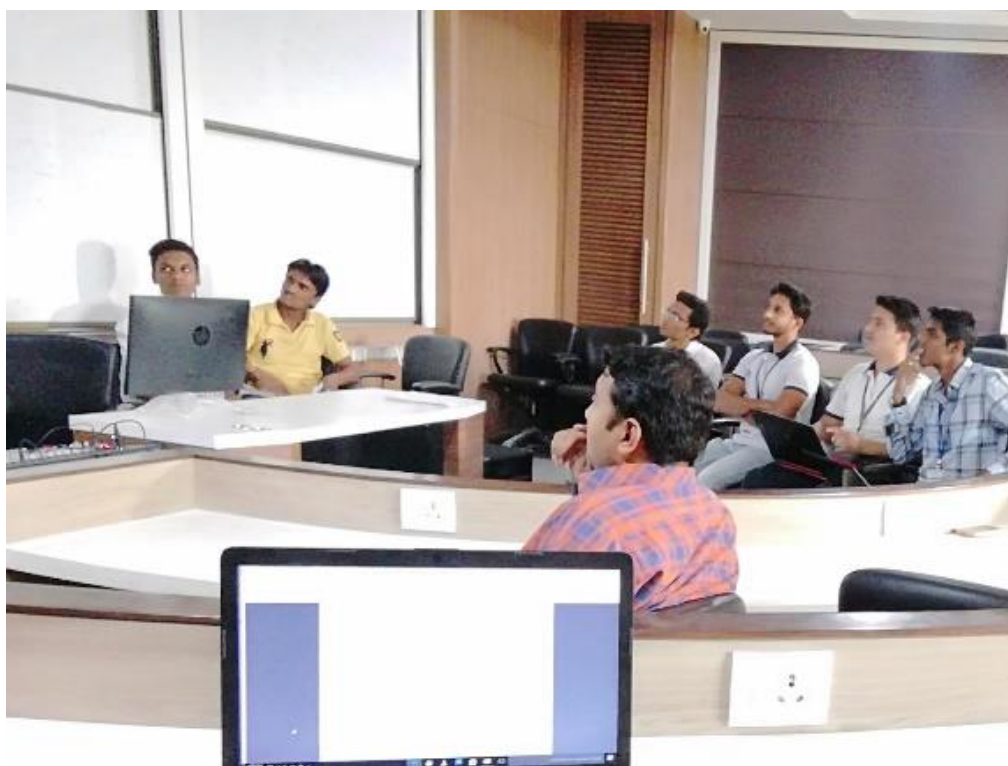
Team S-Falcons with award and trophy



Members of Team S-Falcons at GBU, Greater Noida



Supporting staff of SVKM's IOT



Virtual round via online conferencing at SVKM's IOT, Dhule