



Rayat Shikshan Sanstha's  
**Yashwantrao Chavan Institute of Science, Satara (Autonomous)**  
**Maharashtra, India**  
**Department of Electronics and Computer Science in association with**  
**Research and development**  
Organizes  
**Webinar on Recent Advances in Wireless Sensing**  
**(Under RUSA)**  
**26<sup>th</sup> October, 2021**

❖ **Objectives:**

1. To encourage the student and faculty for research
2. To build up research skills among the student and faculty.

❖ **Report**

The Department of Electronics and Computer Science organized Webinar on Recent Advances in Wireless Sensing on 26th October 2021. The primarily objective of this webinar is to encourage the student and faculty for research as well as to develop Research skills among them. The activity was formally inaugurated by Chief Guest Dr .V. M. Ghorpade Dean, PG Section, Y.C.I.S., Satara. Chief guest has shared their views with faculty members and Students. President Mr. J.A. Wagh, Head department of Electronics and Computer Science, Y.C.I.S., Satara guided the participants on this event. The activity began with a welcome speech by Dr. G. S. Nhivekar, Assistant Professor Department of Electronics. He also explain the theme of activity

The resource person is Prof. A. D. Shaligram, Professor Emeritus, Electronic Science and CEO, SPPU Research Park Foundation Pune, Maharashtra, India. His topic is "Wireless Sensor Networks in SMART Farming". He discussed on different techniques including industry 4.0, MEMS, Smart material etc and how they can be used to solve local problem. They focused on applications of IOT and wireless sensing network in agriculture and IOT.

Dr. G. S. Nhivekar, Assistant Professor Department of Electronics proposed vote of thanks.

<b>Name of Activity</b>	<b>Topic/Workshop/Webinar with date and time</b>	<b>Resource Person</b>	<b>Beneficiaries</b>	<b>Number of Participants attended</b>

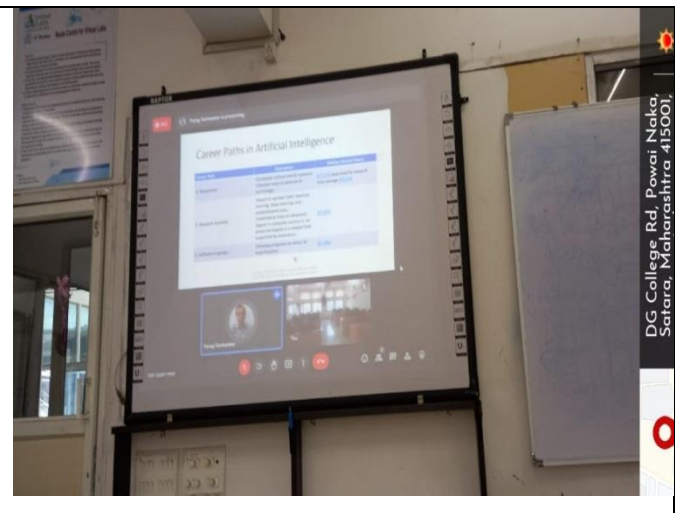
Webinar on Recent Advances in Wireless Sensing	<b>Webinar :</b> Wireless Sensor Networks in SMART Farming 26th October 2021 11:30 am to 12:30 pm	Prof. A. D. Shaligram, Professor Emeritus, Electronic Science and CEO, SPPU Research Park Foundation Pune, Maharashtra, India	P.G Students and faculty	38
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**Outcome:**

1. Student's got information about importance and applications Wireless Sensing network in Day to day life.
2. Able to understand and choose technology to solve local problem.

**Photo Gallery:**





**Name of Chair Person:**

**Mr. J. A. Wagh**

**H.O.D**

**Dept. of Electronics, YCIS, Satara.**



Rayat Shikshan Sanstha's

**Yashwantrao Chavan Institute of Science, Satara (Autonomous)**  
**Department of Electronics and Computer Science in association with**  
**Research and development**

Organizes

**Webinar on Recent Advances in Artificial Intelligence**

**(Under RUSA)**

**6<sup>th</sup> December 2021**

❖ **Objectives:**

3. To encourage the student and faculty for research
4. To build up research skills among the student and faculty.

❖ **Report**

The Department of Electronics and Computer Science organized Webinar on Recent Advances in Artificial Intelligence on 6<sup>th</sup> December 2021. The primary objective of this webinar is to encourage the student and faculty for research as well as to develop Research skills among them. The activity was formally inaugurated by Chief Guest Dr .V. M. Ghorpade Dean, PG Section, Y.C.I.S., Satara. Chief guest has shared their views with faculty members and Students. President Mr. J.A. Wagh, Head department of Electronics and Computer Science, Y.C.I.S., Satara guided the participants on this event. The activity began with a welcome speech by Ms. R. U. Atar, Assistant Professor Department of Computer Science. She also explain the theme of activity

The resource person is Prof. Parag Tamhanakar, Assistant Professor, Garware College, Pune, Maharashtra, India. His topic is "New Era in AI and Data Science". He discussed on to enable computers to perform such intellectual tasks as decision making, problem solving, perception, understanding human communication and how they can be used to solve local problem. They focused

on applications of IOT and wireless sensing network in agriculture and IOT. Ms. G.P.Shendage, Assistant Professor, Department of Computer Science proposed vote of thanks.

Name of Activity	Topic/Workshop/Webinar with date and time	Resource Person	Beneficiaries	Number of Student's attended
Webinar on Recent Advances in Wireless Sensing and Artificial Intelligence	Webinar 6 <sup>th</sup> December 2021 01:00 am to 2:30 pm	Prof. Parag Tamhanakar, Assistant Professor , Garware College, Pune, Maharashtra, India	P.G Students and faculty	30

**Outcome:**

1. Student's got information about importance and applications of Artificial Intelligence in Day to day life.
2. Able to understand and choose technology to solve local problem.

**Photo Gallery:**



**Name of Chair Person:**  
**Mr. J. A. Wagh**  
**H.O.D**



Rayat Shikshan Sanstha's  
**Yashavantrao Chavan Institute of Science, Satara (Autonomous)**  
**Department of Electronics**  
**Report**

**Welcome Function**  
**04, Dec 2021**

Department of Electronics & Computer Science had organized "Welcome Function" on Saturday, 04-Dec-2021 for M.Sc I Electronics & Computer Science Students. This welcome function was organized by M. Sc. II students of Electronics department. The function began with a welcome speech by Mr. J. A. Wagh, Head, Department of Electronics and Computer Science and he welcome all new students of first year on behalf of department.

Hon. Chief Guest was felicitated by offering a bouquet & all other dignitaries were also felicitated by offering flowers. Two students from M.sc I Electronics & Computer Science expressed their feelings and their views about college & department. Hon. Dr. B.T. Jadhav, Principal, Y. C. I. S., Satara was Chief Guest of function. Hon. Dr. V. M. Ghorpade, PG Dean, Y. C. I. S., Satara and Hon. S. K. Pore, Coordinator KIIT Department, Satara, was Gracious Presence of function. He expresses his views, welcome all new students and introduce the college to new students. Miss. Shital Pawar from M.Sc. II propose vote of thanks.

# Photo Gallery





Rayat Shikshan Sanstha's  
Yashwantrao Chavan Institute of Science, Satara  
(Autonomous)

Organized By

**Department of Electronics**

**A report on**

ON

**A Three Days workshop on Open Source Software and its  
Application**

29<sup>th</sup> to 31<sup>st</sup> December, 2021



Day-I





thanks of recourse person made by Miss. R.M.Nikam.



### Session III:

Miss. R.M.Nikam, introduce the resource person of session-III. Dr. G.S. Nhivekar Assistant Professor, YCIS; conducted session-III on “Learn basics of Programming language C and Arduino IDE”. He focused on importance steps to program Arduino Uno development board. He gives demonstration to interface basic input and output and basic sensor interfacing techniques. The session ends with active participant discussion. Vote of thanks of recourse person made by Miss. R.M.Nikam.



## Day-II

### Session IV:

Miss. K.V. Jadhav, introduce the resource person of session-IV. Mr.S.R.Pol Assistant Professor, YCIS, conducted session-IV. The session start with theoretical background “Interfacing with digital and analog sensors”. The session ends with hands-on training with active

participant.



## Session V:

Miss. K.V. Jadhav, introduce the resource person of session-IV. Mr. G. R. Attar Assistant Professor, YCIS, conducted session-V. The sessions concentrate on theoretical background of wireless sensors. The session ends with hands-on training of “Arduino based wireless sensor network” with active participant.



**Day-III**

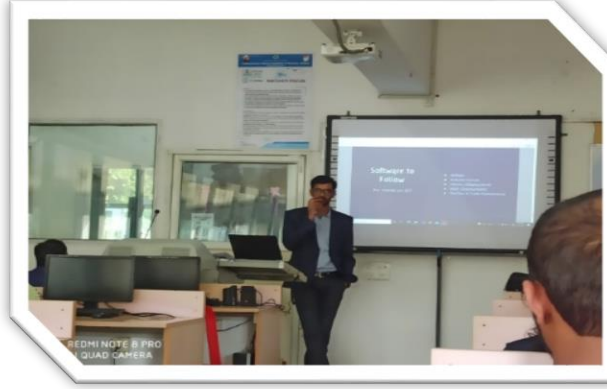
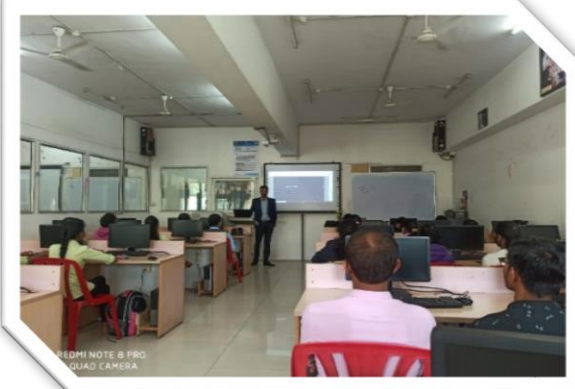
## Session VI:

Miss. Y.S.Salunkhe introduce the resource person of session-VI, Mr.S.S. Barkade Assistant Professor, YCIS Assistant Professor, YCIS, conducted session-VI. The session starts with theoretical background “Arduino for development of IOT system”.The session ends with hands-on training with active participant.



## Session VII:

Miss.Y.S.Salunkhe., introduce the resource person of session-IV. Mr. Sourabh Wathare, Founder,Wathare InfoTech, Satara conducted session-VII. The sessions concentrate on theoretical background of basic of Home Automation System and techniques related to it. Miss.Y.S.Salunkhe concludes activity with vote of thanks.



Coordinator  
(Mr. G. R. Attar)

HOD  
(Mr. J. A. Wagh)

## Achievement:

## Patents:

### 1) Prin. Dr.B.T.Jadhav –Australian Patent

Sr. No	Patent Title	Innovator	Patent No.	Date
1	Innovative harvesting tool	Mr.S.R.Pol Mr.S.K.Shind Mr.P.S.Mundada Mr.J.A.Wagh	202021006404	14-02-20 (Publication )
2	AN AUDIO ALERT SECURITY DEVICE	Ms. K. D. Gadekar, Mr. S. Gubbala, Mr. S. S. Barkade, Mr. J. A. Wagh, Dr. B. T. Jadhav	202021054347	14-12-2020 (Registration)

### 1) Mr. Shashikant Shinde:

Worked as Primary Evaluator in Toycathon.2021.



[Download Certificate](#)

2)



**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy**

**Certificate**

This is certified that **Shashikant Shinde**, Assistant Professor of **Yashwantrao Chavan Institute of Science, Satara (Autonomous)** participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Agri Entrepreneurship" from **23/08/2021** to **27/08/2021** at **Entrepreneurship Development Institute of India**.

Advisor-I, ATAL Academy  
Mamta Rani Agarwal



Coordinator

3)



**e-Certificate of Participation**

*This is to certify that*

**Shashikant K Shinde**

has participated in the 5-day eCourse on Innovation, Entrepreneurship & Startup Ecosystem, a Short Term Training Program (STTP) from October 18 - 22, 2021, organised by GUSEC, IIES and Gujarat University.

**Ravi M Gor**  
Joint Coordinator  
GUSEC



22.10.2021

**Rahul Bhagchandani**  
CEO  
GUSEC

4)



# INSTITUTE OF SMART STRUCTURES AND SYSTEMS

(A Society registered under Govt. of Karnataka)

Department of Aerospace Engineering, Indian Institute of Science, Bengaluru-560 012, India

## Certificate

This is to certify that Mr/Ms/Dr **Shashikant Shinde** of **Yashavantrao Chavan Institute of Science, Satara (Autonomous)** has successfully completed the PMRF Course **Micro-Nano Fabrication and Characterization** on 10<sup>th</sup> November 2021 conducted by Mr. Sanket Jugade

*G. K. Ananthasuresh*

**President ISSS**

**(Prof.G.K.Ananthasuresh)**

*Sanket S. Jugade*

**PMRF Student**

**(Mr. Sanket Jugade)**

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Dr. Anjana Jain, NAL, Bengaluru

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Prof. Anurekha Sharma, Kurukshetra U.  
Dr. Prosenjit Sen, IISc, Bengaluru

#### Address for Correspondence

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<http://www.isssonline.in>

Rayat Shikshan Sanstha's  
**Yashavantrao Chavan Institute of Science, Satara (Autonomous)**  
**One Day Workshop**  
**On**

**“Software Skill for Office Automation”**

**Under Capacity Building for Non-Teaching**

**Under UGC Autonomous Grant**

**Report**

**Date: 03/03/2022**

**Objectives:**

- To provide factual knowledge of office automation
- To compensation with G-Suit
- To provide strong foundation on office administration
- To provide conceptual knowledge of GST

**Abstract:**

Yashavantrao Chavan Institute of Science, Satara organized one day workshop on Software Skill for Office Automation , under Capacity Building for non-teachers and UGC Autonomous Grant on **3<sup>rd</sup> March 2022, Thursday at 11.00 am** . The welcome speech for the workshop was given by the Mr. J. A Wagh, head Department of Electronics and Comp. Sci. He shared his views about importance of software skills and need of office automation. All non teaching staff of institute was present for the workshop. The first resource person of this program was Mr. R. P. Waghmare, Incharge, Department of Computer Science (Entire). He guided on topic “Applications of G-Suit”. In this session he explained various apps of G-Suit like Gmail, Google drive, Google classroom, sheets, forms and Google earth. Second resource person was Mr. Suryakant Pore, Coordinator, KIIT, YCIS, Satara. His topic was “Use of Software in Office Administration”. He explained Rayat Gurukul software and how to insert and show data in that particular software. He also explained how all the data can collectively handled and maintained. After lunch break, the resource person for third session was Mr.



Prafull Shaha, Chartered Accountant, Satara and Mr. Daji Kare, Chartered Accountant, Satara . His topic was “GST - Goods and services tax”. They explained all basic concepts of GST and e- invoicing. Also explained how to generate bills of GST in Tally Software. More than 160 non-teaching faculties have attended the workshop. Some participants presented good feedback on whole workshop.

### **Outcomes:**

At the end of this workshop the participants should be able to

- Handle the ‘G-Suit’ application
- Judge and formulate GST- Goods and Services Tax
- Understand software skill of Rayat Gurukul Software for office administration
- Improve the working condition and employees work in safe and comfortable environment

<b>Sr. No.</b>	<b>Name of Workshop</b>	<b>Resource Person</b>	<b>Duration(Date &amp; Time)</b>	<b>Number of Beneficiary</b>
1	Applications of G-Suit	Mr. R. P. Waghmare	3rd March 2022 11:00 am -12:30 pm	160
2	Use of Software in Office Administration	Mr. Suryakant Pore	3rd March 2022 12:30 pm -02:00 pm	
3	GST - Goods and services tax	Mr. Prafull Shaha Mr. Daji Kare	3rd March 2022 02:30 pm- 03:30 pm	

# Photo Gallery





Satara, Maharashtra, India  
YCIS Satara  
Lat 17.685704°  
Long 74.010959°  
03/03/22 11:56 AM

Coordinator,  
**Mr. S. K. Shinde**  
(Asst. Prof., Dept. of Ele.,  
YCIS, Satara)



Rayat Shikshan Sanstha's

**Yashwantrao Chavan Institute of Science, Satara  
(Autonomous Institute), Maharashtra, India**

NAAC Reaccredited at A+ Grade with CGPA: 3.57, UGC-CPE-II, DBT-STAR, DST-FIST, RUSA  
Excellence, UGC-PARAMARSH, ISO: 9001-2015

# Department of Electronics

## Activity Report

### Workshop

On

**Robotics Programming and Maintenance**

**Under**

**(RUSA and Skill Course)**

Saturday, 29<sup>th</sup> March 2022



Name of Activity  
**Workshop**  
On  
**Robotics Programming and Maintenance**

- ❖ Day and Date: Saturday, 29<sup>th</sup> March 2022
- ❖ Objective: To enhance the knowledge of industrial application in IoT and Robotics
- ❖ Theme: **IoT and Robotics**
- ❖ Mode of Program: Offline
- ❖ Venue: Department of Electronics
- ❖ Place :Satara

## ❖ Report ❖

On behalf of Yashavantrao Chavan Institute of Science, Satara, a Workshop on “Robotics Programming and Maintenance” Under Skill Course and RUSA was organized in the Department of Electronics on 29<sup>th</sup> March 2022 at 8.00 am. The idea behind organizing the Workshop is that students will be able to get industrial knowledge about Robotics Applications. Also to inform them about the job opportunities that are available after M.Sc. Programme.

The inaugural ceremony of this Workshop was held at 8.00 am. Mr. J. A. Wagh Delivered his welcome address and he Felicitated to Resource Person Mr.Sourabh Wathare Co-founder & CEO Wathare Infotech Solutions, Satara MS India Pvt. Ltd, Mr.S.S.Barkade Assistant Professor Department of Electronics, YCIS Satara and Ms.K.D.Gadekar Assistant Professor Department of Electronics, YCIS Satara. After Welcome address Chief Guest and Resource Person Mr.Sourabh Wathare Sir Expressed his View on the Workshop topic as well as he express his gratitude toward Prin.Dr. B.T.Jadhav Sir And Head Mr. J.A.Wagh Sir. After Chief guest Speech Hon. President gives his address, In presidential address sir had take a review on Robotics Applications. He give us support and encouragement to attend the all lectures in this Workshop.

Three sessions were conducted during the Webinar in whole day. *The first session was held from 8.30 am by Ms. K.D.Gadekar. She explain basic concept in Robotics. The point where Ms. Gadekar told us about the basic knowledge required in industry was really informative.*

The Second session was held at 9.45 am by *Mr Sunil Barkade on Robotics programming Languages. He explained programming languages for robotics and how Python is important to understand the robotics and how to manufacture different robots.*

The Third session was held at 11.15 am by *Mr Sourabh Wathare on Industrial Approach to Robotics. He explained how robots are working in industry and how to install robots in industry. He shows some industrial examples which are working using robotics*

The question and answer session was held in both sessions independently. In this session, the questions of the students for Robotics were answered by all resource persons and they encourage to the students to join the industry of robotics as well as for the research.

The workshop was attended by a total of 40 participants, including 35 students and 05 faculty members. All the programs were anchoring by Mr P.S.Kadam and Coordinated by Mr. S. S. Barkade. At the end from students Mr. Shailesh Jangam and Nimisha Shaha from M.Sc.II give his feedback and Suggest to organize such webinars and hand on workshops on Robotics by Industry persons. With Concluding Speech of Mr. S.D.Jadhav Workshop was Successfully Completed at 1.00 pm

- Outcome:**
1. To impart Factual and Conceptual Knowledge of Robotics.
  2. To guide students about current and future job opportunities available in the Robotics area

Mr. J. A. Wagh  
Head,  
Department of Electronics

❖ Brief summary:

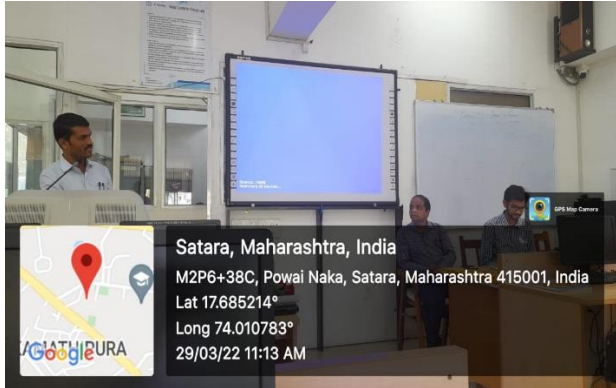
Name of activity	Day and Date	Resource Person	Objective	Outcomes	Beneficiary
<p><b>Workshop on “Robotics Programming and Maintenance”</b></p>	29 <sup>th</sup> March 2022	<p><b>1. Mr.Sourabh Wathare</b> Co-founder &amp; CEO Wathare Infotech Solutions, Satara</p> <p><b>2. Ms.K.D.Gadekar</b> Assistant Professor Department of Electronics, YCIS Satara</p> <p><b>3. Mr.S.S.Barkade</b> Assistant Professor Department of Electronics, YCIS Satara</p>	To enhance the knowledge of industrial application Robotics	<p>1. To impart Factual and Conceptual Knowledge of Robotics.</p> <p>2. To guide students about current and future job opportunities available in Robotics area</p>	40

Mr. J. A. Wagh

Head, Department of Electronics



## Photo Gallery



Inauguration Function



Resource person



Resource person



Participants



Rayat Shikshan Sanstha's

**Yashwantrao Chavan Institute of Science, Satara  
(Autonomous Institute), Maharashtra, India**

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NAAC Reaccredited at A+ Grade with CGPA: 3.57, UGC-CPE-II, DBT-STAR, DST-FIST, RUSA Excellence, UGC-PARAMARSH, ISO: 9001-2015  
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# Department of Electronics

## Activity Report

Hands on Training  
on

**“Audio Video Editing Using Advanced Techniques”**

Under

**Skill Courses Sponsored by RUSA**

**Saturday 19<sup>th</sup> March 2022**



**Hands on Training  
on  
“Audio Video Editing Using Advanced Techniques”**

❖ Date: Saturday, 19<sup>th</sup> March 2022

❖ Objective:

- To Familiarizing themselves with knowledge, skills and competencies needed in Advanced Techniques in audio video recording.
- To build Self confidence in practitioners.

❖ Theme:

To provides real-world experience by allowing the trainee to get her hands directly on whatever she is learning, creating a sense of empowerment.

❖ Mode: Offline

❖ Venue: Department of Electronics, Computer Lab II



## ❖ Abstract ❖

Hands on Training on “Audio Video Editing Using Advanced Techniques” organized by Rayat Shikshan Sanstha’s, Yashavantrao Chavan Institute of Science, Satara (Autonomous Institute) Department of Electronics was held Saturday 19<sup>th</sup> March 2022 in an enthusiastic and disciplined manner following all rules of the COVID epidemic.

The primary objective of Training 2021 was To Familiarizing themselves with knowledge, skills and competencies needed in Advanced Techniques in audio video recording and Main focus of this Training was to build Self confidence in practitioners.

The programme was inaugurated on 19<sup>th</sup> March 2022 11.00 AM by honorable Mr. J. Wagh Head , Department of Electronics ,Y.C. Institute of Science ,Satara with participants .After formal inaugural, Mr. J.A. Wagh, introduce the aim and idea behind conduction activity.

There were a total of three sessions for hands on training. Mr.R. R. Mane , Sign Animation System, Pune was the resource person of the first of the three sessions. Mr. R. V. Bhambure, Assit. Professor, Department of Animation Science, YCIS Satara was resource person for second session and Ms. S. R. Jadhav, Assit. Professor, Department of Electronics, YCIS Satara was the resource person for the third session, Welcome and introduction of these resource persons by Mr. S. D. Jadhav, Assit. Professor and skill program coordinator, Department of Electronics, Y.C. Institute of Science, Satara.

The first station was held from 11.30 am to 1.30 pm. In this session, Mr. R. R. Mane gave information about Cinematography software in which he imparted training on Use of colour filters, Color Cutting, Lightning Principles, Color Corrections and Balancing, colour conversion etc...

The second session was held from 2.30 pm to 3.30 pm. In this session, Mr. R.V. Bhambure gave training on Edius software, in which he imparted training on audio-video separation techniques, Adding Effects, adding Markers, Import and export video.

The third session was held from 3.30 pm to 5.30 pm in which Ms. S.R Jadhav gave training on Open Shot video editor, in which she imparted training on Track mixing and adding Subtitle.

The benefit of this training was taken by 37 students and 5 faculty members. The Valedictory ceremony was held from 5:30 pm to 6:00 pm. Mr. GR Attar was the chairman of the ceremony. All the students feedback that all the doubts in the training have been resolved.

### **Outcomes:**

1. Participated made a video on the content of the training.
2. Participating expressed their willingness to take up the commercial work of audio video edition.

❖ Brief summary:

Name of activity	Date and time	Resource Person	objective	Outcomes	Beneficiary
Hands on Training on “Audio Video Editing Using Advanced Techniques”	Saturday, 19 <sup>th</sup> March 2022	<b>Mr. R. R. Mane</b> Sign Animation System, Pune	<ul style="list-style-type: none"> <li>• To Familiarizing themselves with knowledge, skills and competencies needed in Advanced Techniques in audio video recording.</li> <li>• To build Self confidence in practitioners.</li> </ul>	<ol style="list-style-type: none"> <li>1. Participated made a video on the content of the training.</li> <li>2. Participating expressed their willingness to take up the commercial work of audio video edition.</li> </ol>	42
		<b>Mr. R. V. Bhambure</b> Assistant Professor, Department of Animation Science, YCIS Satara			
		<b>Ms. S. R. Jadhav</b> Assistant Professor Department of Electronics YCIS Satara			

Mr. J. A. Wagh  
Head, Department of Electronics

# Photo Gallery

