



JNAN VIKAS MANDAL'S  
 Amratlal Raichand Mehta Degree College of Arts  
 Diwali Maa Degree College of Science  
 Mohanlal Raichand Mehta College of Commerce  
 Padmashree (Dr.) R.T. Doshi Degree College of Computer Science  
 Plot no.9, Sector -19, Airoli Navi Mumbai

Date: 18/06/2022

**NOTICE**

All faculties of the Science Department are hereby informed that tomorrow on 19<sup>th</sup> June 2022 there will be meeting at 12:00 noon in Chemistry Lab.

All the members are requested to be present for the same.

**AGENDA**

- 1] To discuss about conducting "Certificate Course" for T.Y.B.Sc. class.
- 2] Any other matter with the permission of Chairperson.



*Leena*  
 Dr. Leena Sarkar

(Principal & Chairperson)

**PRINCIPAL**  
 JNAN VIKAS MANDAL'S  
 M.R. MEHTA COLLEGE OF COMMERCE  
 D.M. COLLEGE OF SCIENCE  
 A.R. MEHTA COLLEGE OF ARTS  
 Dr. R.T. DOSHI COLLEGE OF COMPUTER SCIENCE  
 Plot No.9, SEG.- 19, AIROLI,  
 NAVI MUMBAI-400 708



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Plot no.9, Sector -19, Airoli Navi Mumbai

Date :- 19/06/2022

**Minutes of the Meeting**

The meeting was arranged on 19<sup>th</sup> June 2022 to decide about the process to conduct the certificate course by Physics Department for the academic year 2022-2023.

**Following points were discussed in the meeting :**

- 1] As per the suggestions by respected Principal madam Dr. Leena Sarkar, Certificate course on the topic "Advancement in Instrumentation" was finalized. The aim was to inculcate scientific temper in the students.
- 2] Principal Dr. Leena Sarkar madam appointed Asst. Prof. Sagar Shinde [Physics Department] as a convenor for conducting this Certificate Course.
- 3] In this meeting, theme, time table and syllabus for Certificate Course was finalized.
- 4] Meeting was end with vote of thanks.

**Following members were present in the meeting: -**

1. Dr. Leena Sarkar [ Principal] *Leena*
2. Asst. Prof. Sandhya Patil *Sandhya*
3. Asst. Prof. Harshada Niju *Harshada*
4. Asst. Prof. Savita Kumari *Savita*
5. Dr. Shweta Rathore *Shweta*
6. Asst. Prof. Pintoo Jaiswar *Pintoo*

*Sagar Shinde*  
Asst. Prof. Sagar Shinde

Convener



*Leena*  
Dr. Leena Sarkar

(Principal & Chairperson)

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### JNAN VIKAS MANDAL'S (Linguistic Minority)

Mohanlal Raichand Mehta College of Commerce

DiwaliMaa College of Science

Amritlal Raichand Mehta College of Arts

Dr. R.T. Doshi College of Computer Science

Plot No.9, Sector -19, Airoli, Navi Mumbai 400708

<b>Program</b>	<b>B.Sc.</b>
<b>Year</b>	<b>2022-23</b>
<b>Eligibility</b>	<b>T.Y.B.Sc.</b>
<b>Course</b>	<b>Online Certificate course in Science</b>
<b>Total Marks</b>	<b>100</b>
<b>Number of Lectures</b>	<b>40</b>
<b>Objectives of the Course</b>	
<ul style="list-style-type: none"> <li>• To help the learner with useful tips and tricks for using Google effectively.</li> <li>• To encourage the learner to use e-resources and software for learning more interesting.</li> <li>• To enlighten the learner about the innovative and sustainable approach of Home automation and repairing and maintenance of appliances.</li> <li>• To bring awareness about the sustainable energy - Solar Cell</li> <li>• To introduce learner to an important branch of Physics – Electronics and it's applications in various fields.</li> <li>• To impart knowledge of Standard Operating Procedures to be followed in handling the instruments and appliances along with the understanding of do's and don't's.</li> </ul>	
<b>Course Outcome</b>	
<ul style="list-style-type: none"> <li>• It will help the learner to thrive in this competitive world and gain edge over their peer group, thus, contributing in their life and career significantly.</li> <li>• Learner will be exposed to mobile as well as computer shortcuts that will be used while doing job efficiently which will save time.</li> <li>• Learner can do formatting, reset, hidden content check, IMEI no. check etc. like tasks in any android phones.</li> <li>• It will expose the learner to multifaceted options after pursuing pure sciences with Physics for having a satisfying career.</li> <li>• It can help the learner to start up their own profitable business, aiding to "AATM-</li> </ul>	



**NIRBHAR BHARAT”**

- Learner will be able to appreciate the gist of vital concepts of physics and will be able to visualise the mechanism & physics behind our day-to-day experience in surrounding.
- Learner will get an idea of handling of different home appliances and also basic knowledge gain for industry.



## SYLLABUS

S.No.	Faculty Name	Topic	No. of Lectures
1	Mr. Sagar Shinde	Transducers	4
2	Mr. Sagar Shinde	Probability - Basic	2
3	Mr. Sagar Shinde	Crazy Shortcuts in Computerworld	2
4	Mr. Sagar Shinde	Basics of Home Appliances	2
5	Mr. Sagar Shinde	Communication System	4
6	Mr. Sagar Shinde	Probability - Advance	2
7	Mr. Sagar Shinde	Crazy Shortcuts in Mobile world	2
8	Mr. Sagar Shinde	Maintenance of Home Appliances	2
9	Mr. Sagar Shinde	Boolean Algebra	4
10	Mr. Sagar Shinde	Assessment	6
		Total	30



**JVM's Degree College**  
**T.Y. B.Sc. Physics Certificate Course 2022-23**  
**“Advancement in Instrumentation”**

Time	9 a.m. -10 a.m.	10:00 a.m.-11:00 a.m.	11:20 a.m. -12:20 p.m.	12:20 p.m.-1:20 p.m.
20/06/2022 Monday	Mr. Sagar Shinde Transducers	Mr. Sagar Shinde Transducers	Mr. Sagar Shinde Probability - Basic	Mr. Sagar Shinde Probability- Basic
21/06/2022 Tuesday	Mr. Sagar Shinde Crazy Shortcuts in Computerworld	Mr. Sagar Shinde Crazy Shortcuts in Computerworld	Mr. Sagar Shinde Basics of Home Appliances	Mr. Sagar Shinde Basics of Home Appliances
22/06/2022 Wednesday	Mr. Sagar Shinde Communication System	Mr. Sagar Shinde Communication System	Mr. Sagar Shinde Probability - Advance	Mr. Sagar Shinde Probability - Advance
23/06/2022 Thursday	Mr. Sagar Shinde Crazy Shortcuts in Mobile world	Mr. Sagar Shinde Crazy Shortcuts in Mobile world	Mr. Sagar Shinde Maintenance of Home Appliances	Mr. Sagar Shinde Maintenance of Home Appliances
24/06/2022 Friday	Mr. Sagar Shinde Transducers	Mr. Sagar Shinde Transducers	Mr. Sagar Shinde Boolean Algebra	Mr. Sagar Shinde Boolean Algebra
25/06/2022 Saturday	Mr. Sagar Shinde Communication System	Mr. Sagar Shinde Communication System	Mr. Sagar Shinde Boolean Algebra	Mr. Sagar Shinde Boolean Algebra

- 6 Hrs of assessment will be done at the end of every day of the programme by subject teachers.





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**Padmashree (Dr.) R.T. Doshi Degree College of Computer Science**  
**Plot no.9, Sector -19, Airoli, Navi Mumbai**

**T.Y. B.Sc. Certificate Course- (2022-2023)**

**On**

**"Advancement in Instrumentation"**

**Duration: - 30 Hrs.**

**Program: B.Sc.**

**Course: Online Certificate Course in Science**

**Number of Lectures: 30**

**List of Students Enrolled**

<b>Roll No.</b>	<b>Name of the Student</b>
1301	Vinod Gupta
1302	Tanmay Jadhav
1304	Vedant Rokade

**Mr. Sagar Shinde**  
**Convenor**

**Dr. Leena Sarkar**

**Principal & Chairperson**

**PRINCIPAL**

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**A.R. MEHTA COLLEGE OF ARTS**

**Dr. R.T. DOSHI COLLEGE OF COMPUTER SCIENCE**

**Plot No.9, SEC.- 19, AIROLI,**

**NAVI MUMBAI-400 708**



## ATTENDANCE

1. Name of Teacher: Mr. Sagar Shinde						
Name of Student	20.06.2022	21.06.2022	22.06.2022	23.06.2022	24.06.2022	25.06.2022
Vinod Gupta	P	P	P	P	P	P
Vedant Rokade	A	P	P	P	P	P
Tanmay Jadhav	A	P	P	P	P	P

## ASSESSMENT

Name of Student	TEST 1	TEST 2
Vinod Gupta	19	20
Vedant Rokade	18	20
Tanmay Jadhav	19	20







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Plot no.9, Sector -19, Airoli, Navi Mumbai

T.Y.B.Sc Certificate Course "Advancement in Instrumentation"			
Assessment (25th- June-2022)			
Name of the student	Class	Email address	Score
Vinod Gupta	TYBS c Phy	guptavinodsu143@gmail.com	19 / 20
Tanmay Jadhav	TYBS c Phy	tanmayjadhav1564@gmail.com	18 / 20
Vedant Rokade	TYBS c Phy	vedantrokade173@gmail.com	19 / 20
Quiz Link	<a href="https://forms.gle/zxjpRnCHBgk2vLMH9">https://forms.gle/zxjpRnCHBgk2vLMH9</a>		

  
Mr. Sagar Shinde  
Convenor

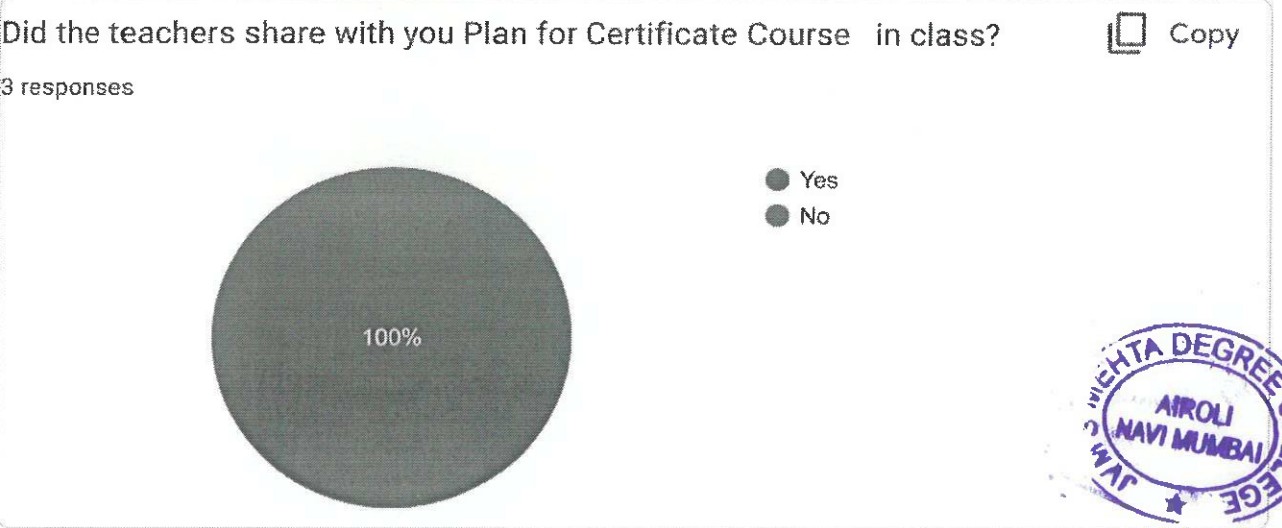
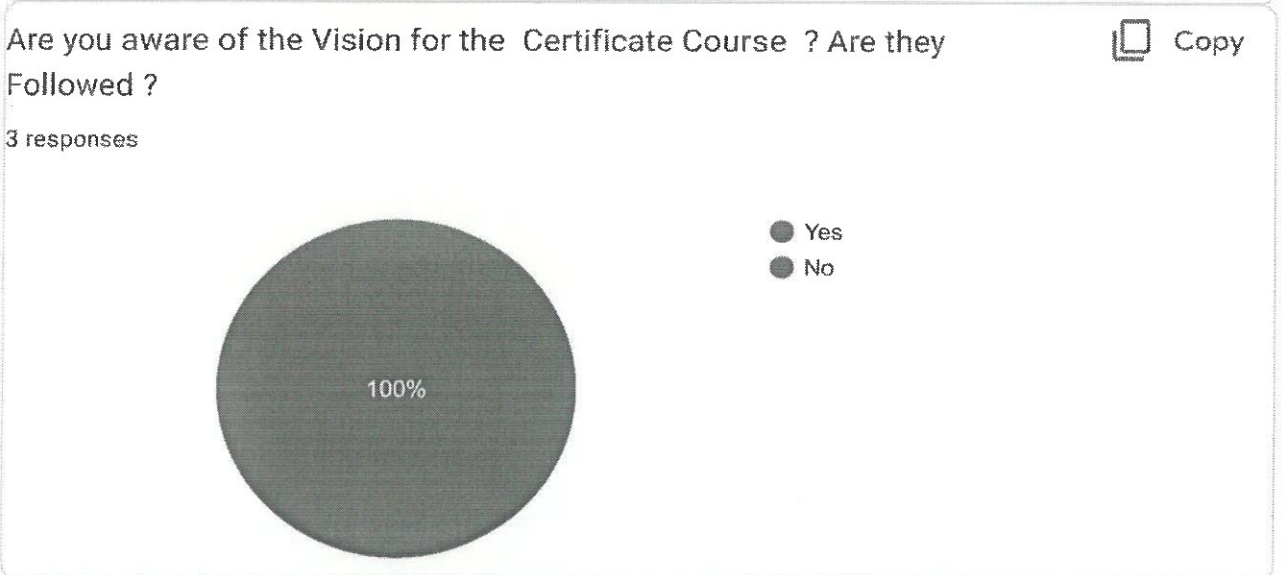


  
Dr. Leena Sarkar

Principal & Chairperson

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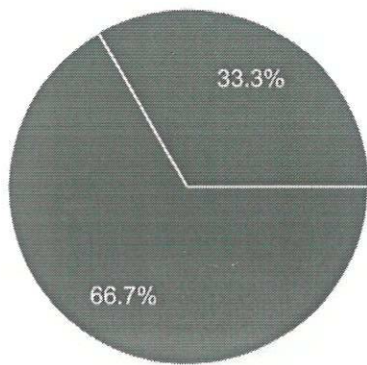
FEEDBACK ANALYSIS



How well did the teachers prepare for the Certificate Course classes?



3 responses

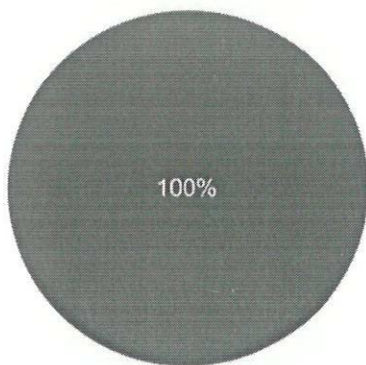


- Significantly
- Very well
- Moderately

How well were the teachers able to communicate?



3 responses

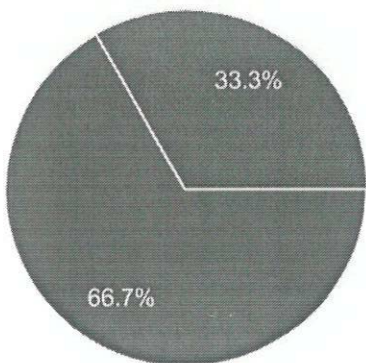


- Always effective
- Sometimes effective
- Just satisfactorily
- Ineffective

The teacher's approach to teaching can best be described as



3 responses



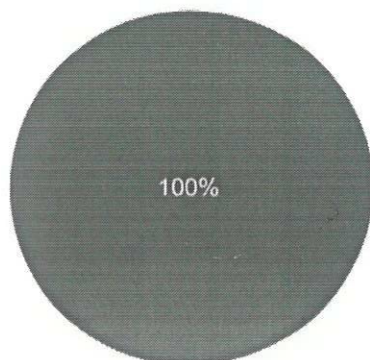
- Excellent
- Very good
- Good
- Fair
- Poor



Do you think that teaching methods adopted by the teachers help in attaining objectives of the Certificate Course ?

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3 responses

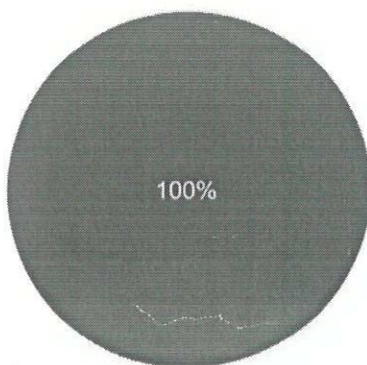


- Yes
- No

Teachers inform you about your expected competencies, course outcomes.

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3 responses

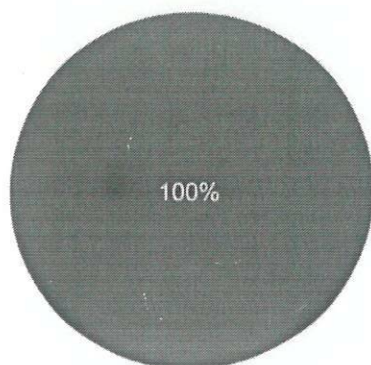


- Yes
- No

The teachers illustrate the concepts through examples and applications.

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3 responses



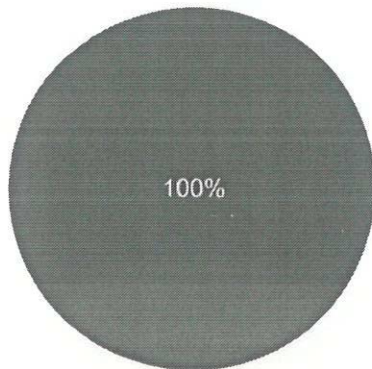
- Every time
- Usually
- Sometimes
- Never



The teacher identify your strengths and encourage you to explore in right direction

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3 responses

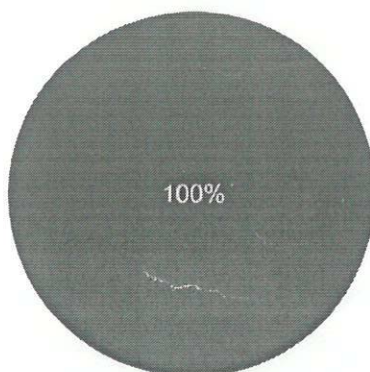


- yes
- No

Teacher are able to identify your weaknesses and help you to overcome them.

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3 responses

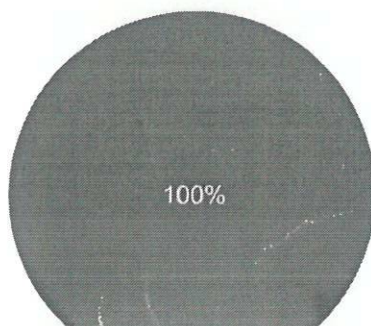


- yes
- No

The overall quality of online teaching-learning process used by Asst. Prof. Sagar Shinde is very good.

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3 responses



- Strongly Agree
- Agree
- Neutral
- Disagree





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Model Certificate

**Jnan Vikas Mandal's Degree College**  
NAAC Re-Accredited 'A' Grade (CGPA- 3.33)  
Plot No. 9, Sector-19, Airoli, Navi Mumbai, Maharashtra - 400 708

**CERTIFICATE**

This certificate is awarded to  
<< Name >>  
who has successfully completed ten days Certificate course on  
**Advancement in Instrumentation**  
organized by Physics department of  
JVM's Degree College from 20<sup>th</sup> June -25<sup>th</sup> June 2022

*Sagar Shinde*  
Asst. Prof. Sagar Shinde  
Course Co-ordinator

*Leena Sarkar*  
Dr. Leena Sarkar  
Principal

*Sagar Shinde*  
Mr. Sagar Shinde

Convenor

*Leena Sarkar*  
Dr. Leena Sarkar

Principal & Chairperson



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T.Y. B.Sc. Certificate Course- (2022-2023)

On

“Advancement in Instrumentation”

### Summary Report

**I. Introduction :** I. Introduction The Certificate Course in Advancement in Instrumentation was designed to provide learners with knowledge and skills related to computer hardware and software, problem-solving, web technologies, effective communication, mobile technology, team working, and business scenarios. The course was aimed at helping learners gain practical knowledge and skills that can be applied in their personal and professional lives.

**II. Learning Outcomes :** The course was successful in achieving its objectives. After completing the course, learners were able to:

1. Demonstrate a basic understanding of computer hardware and software
2. Apply problem-solving skills to real-life scenarios
3. Utilize web technologies effectively
4. Present conclusions effectively, both orally and in writing
5. Demonstrate a basic understanding of the mobile world
6. Work effectively in teams
7. Apply the skills learned in the course to business scenarios

**III. Conclusion :** The Certificate Course in Advancement in Instrumentation was successful in achieving its objectives. The course provided learners with practical knowledge and skills that can be applied in their personal and professional lives. The feedback from learners was positive, and the evaluation results showed a significant improvement in learners' knowledge and skills after completing the course.

