### रसायनशास्त्र विभाग

दिनांक - १२/७/२०१८

## सूचना

सर्व विद्यार्थ्यांना सूचित करण्यात येते की, दिनांक १६ जुलै ते २७ जुलै या कलावधीत(Instrument Handling) वरती सर्टिफिकेटकोर्स घेण्यात येणार आहे. तरी प्रथम वर्षातील विद्यार्थ्यांनी सहभाग घ्यावा. अधिक महितीसाठी संबंधित विषयाच्या प्राध्यापकांशी संपर्क साधावा.



प्रकृत्वार्यःIPAL

Bhairavnath Vidnyan Mahavidyalaya Khutbav,Tal.Daund,Dist.Pune

#### Bhairavnath Shikshan Mandal's Bhairavnath Vidnyan Mahavidyalaya Tal-Daund,Dist-pune

# \*10 DAY'S INSTRUMENTAL COURSE Instruments Handling

Aim: provide information about various instruments.

#### **Objectives:**

students should be able to:

- 1. Explain the static and dynamic characteristics of an instrument.
- 2. Calculate and analyze the measurement error, accuracy, precision and limiting error.
- 3. Describe the basic elements of electronic instrument.
- 4. standardized to every instrument properly and get accurate readings.
- 5. utilization of therotical as well as practically instruments.

Head or Chemistry Chemistry Chemistry



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# Bhairavnath Shikshan Mandal's Bharavnath Vidnyan Mahavidyalaya, Khutbav Tal- Daund, Dist-Pune, 412-203

#### **Instruments Handling**

#### **Time Table**

(16/07/2018 to 26/07/2018)

Sr. No.	Time	<b>Topic Name</b>	Date
1.	2.00pm- 5.00pm	PH-Metry	16/07/2018 17/07/2018
		A)Introduction	
		B)Calibration	
		C)Solution	
		D)Electrode	
T.		E)Experiment	
		F)Unit, Uses, Advantages	
2.	2.00pm- 5.00pm	Colorimetry	18/07/2018 19/07/2018
1		A)Introduction	
7 1		B)Calibration	
		C)Solution	
		D)Electrode	
		E)Experiment	
		F)Unit, Uses, Advantages	
3.	2.00pm- 5.00pm	Conductometry	20/07/2018 22/07/2018
		A)Introduction	
		B)Calibration	
ing.		C)Solution	
		D)Electrode	
18 3 See		E)Experiment	
		F)Unit, Uses, Advantages	73.00
4.	2.00pm-	Refretometry	23/07/2018 24/07/2018
Nn/	5.00pm	A)Introduction	24/0//2018

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#### Bhairavnath shikshan mandal

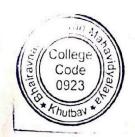
### Bhairavnath vidnyan mahavidyalay, khutbav

#### Tal. Daund Dist. Pune

### Students List of Certificate Course (2018-2019)

Roll No.	Name Of Students	Mobile No	Sign
1	Avchat Apeksha Ramesh	9545650501	ARA.
2	Borkar Archana Rajendra	8530766181	- Bratton
3	Botre Amar Ashok		Bothe
4	CHavan Rohoni Moham		(Rihayan
5	Domale Pooja Gajanan	9766502280	· pomale
6	Dube Archana Uttam	8390423185	AUS
7	Jadhav Tushar Popat	9405850403	T.P. 193 hav
8	Jagtap Komal Vittal		J.K. Withal
9	Javale Snehal Shubhash		Brauxile
10	Kale Sagar Patu		B.P. Kale
11	Khalade Akash Kishor		Klalade
12	Kumbhar Nillamma Satling	9890247485	Willaper
13	Kuramkar Bharat Ramdas	7588472562	Caral
14	Madane Maya Mohan	9623141891	marie
15	Navale Ranjit Tukaram	9765217702	Powell
16	Nimblkar Samiksha Hanumant	9890745423	Minoalkas
17	Pasalkar Priyanka Shrikant	7057943281	Pasalkao
18	Paygude Dhanshri Laxman		(Sh) aspece
19	Purane Nagnath Gopal	9975774334	Housand
20	Sayyad Sayli Surajbhai	8888946718	Toypad
21	Shinde Mayuri Santosh	8805250110	mshinde
22	Shitole Roshani Rajendra		&miniche.
23	Takwane Sonali Vikas	9096112452	Gonali
24	Tekawade Mayuri Ashok	9730314034	Mickwade
25	Thombare Rani Shashikant	9665976119	LSRU2.
26	Thorat Mohini Ramdas	9970906746	parthoon
27	Thorat Nilam Rajendra	7517471760	TEL.
28	Thorat Pratik Nanaso		PK+ W
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31	Vasav Akshay Kisan		(32
32	Mandhare Rani Sambhaji		Roch

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# 10 days course (Instrumentation)

# Bhairwanath Vidnyan Mahavidyalay, khutbav Instruments Handling (2018-2019 T.Y.B.Sc. Attaindance

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T.Y.B.Sc. Attaindance

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Bhairavnath Vidnyan Mahavidyalaya Khutbav, Tal. Daund, Dist. Pune

#### BHAIRAVNATH SHIKSHAN MANDAL'S Bhairavnath Vidnyan Mahavidyalaya Khutbav, Tal-Daund ,Dist-Pune

#### **Learning Outcomes**

- Students will have a firm foundation in the fundamentals and application of current chemical and scientific theories including those in Analytical, Inorganic, Organic and Physical Chemistries.
- Students will be able to design and carry out scientific experiments as well as accurately record and analyze the results of such experiments.
- Students will be skilled in problem solving, critical thinking and analytical reasoning as applied to scientific problems.
- Students will be able to clearly communicate the results of scientific work in oral, written.
- Students will be able to explore new areas of research in both chemistry and allied fields of science and technology.
- Students will appreciate the central role of chemistry in our society and use this as a basis for ethical behavior in issues facing chemists including an understanding of safe handling of chemicals.
- Students will be able to function as a member of an interdisciplinary problem solving team.

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Bhairavnath Vidnyan Mahavidyalaya
Khutbav, Tal. Daund, Dist. Pune

#### Bhairavnath Shikshan Mandal's

### Bhairavnath Vidnyan Mahavidyalaya,

Khutbav, Tal. Daund Dist. Pune 412-203

#### Instrument Handling Certificate Course Report **Chemistry Department** (2018-2019)

Certificate course was organized by chemistry department for students in our college on 16 July to 26 July 2018 at 2.00 pm-5.00 pm in Bhairavnath Vidnyan Mahavidyalaya at chemistry laboratory. The resource person for this workshop was Asst.Prof. Rohini Thorat and Asst .Prof. Randive Suresh.

The Inaugural function was conducted under chair person of Dr. Avinash Sangolekar, Principal Bhairavnath vidnyan Mahavidyalaya, Khutbav.

On16-07-2018 Asst .Prof. Rohini Thorat explained topic PH-metry. She introduced how to calibrate the pH-metry, which solutions are prepared for reading, which electrodes are use, how conduct this experiment and explain unit, uses and advantage of pH-metry. On 17 July she was conducted experiments on deferent solutions.

On 18-07-2018 Asst.Prof. Suresh Randive covered the topic Colorimetry. Also he put his views on various forms of experiments and readings. He introduced how to calibrate the colorimetry, which solutions are prepared for reading, which electrodes are use, how conduct this experiment and explain unit, uses and advantage of Colorimetry. On 19 July he was conducted experiments on deferent solutions.

On 20-07-2018Asst.Prof. Yogita Divekar explained the topic conductometry. She introduced how to calibrate the conductometry, which solutions are prepared for reading, which electrodes are use ,how conduct this experiment and explain unit, uses and advantage of conductometry. On 21 July she was conducted experiments on deferent solutions.

Asst.Prof. Archana Memane explained the topic refractometry on 22 July. She introduced how to calibrate the Refractometry, which solutions are prepared for reading, which electrodes are use ,how conduct this experiment and explain unit, uses and advantage of Refractometry. On 23 July she was conducted experiments on deferent solutions.

Asst.Prof. Arti Sutar explained the topic Potentiometry on 24 July. She introduced how to calibrate the Potentiometry, which solutions are prepared for reading, which electrodes are use ,how conduct this experiment and explain unit, uses and advantage of Potentiometry. On 25 July

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she was conducted experiments on deferent solutions.

Department

Bhairavnath Vidnyan Mahavidyal Khutbav, Tal. Daund, Dist. Pul Also, she illustrated some problem which cause in preparation in solutions. At last exam conducted on this course and feedback also taken. We analysis that feedback and from that feedback we understand the problems and quires of students. We will take action on these problems.

On 26 July we conduct the certificate distribution ceremony at seminar hall in the presence of Dr. Avinash Sangolekar gave presidential address.

At last Convener, Asst.Prof.Y.B.Divekar, summarized the remarkable facts and achievements of the certificate course and proposed the vote of thanks and concluded the certificate course.

For this certificate course understand 32 students and all staff members were present.

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