



"Dissemination of Education through Knowledge, Science and Culture"  
-Shikshanmahrishi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's Kolhapur

**PADMABHUSHAN DR. VASANTRAODADA PATIL  
MAHAVIDYALAYA TASGAON DIST- SANGLI  
416 312 (Maharashtra) Phone No: (02346)250665**  
(Affiliated to Shivaji University, Kolhapur)

## **CERTIFICATE COURSE**

### **Operation and Management of Cold Storage**

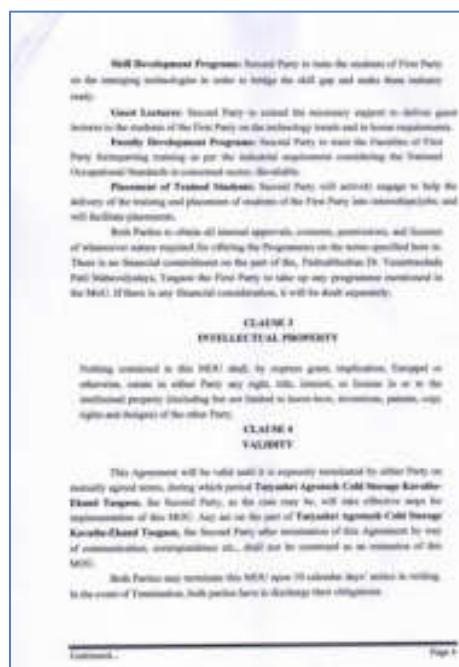
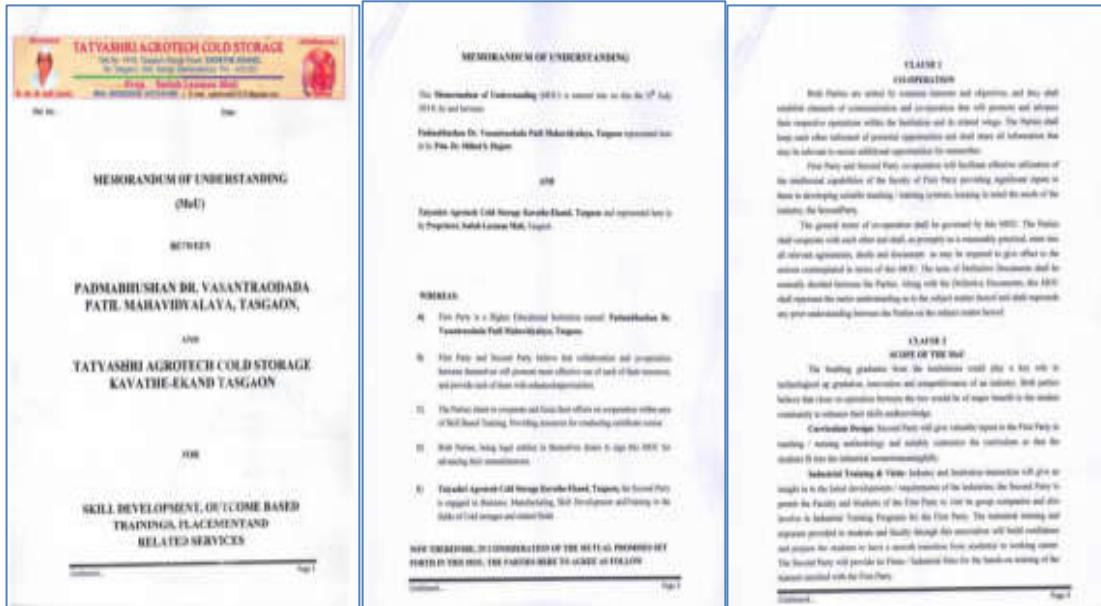
**Organized Under MOU by**

**Department of Physics  
and  
Tatyashri Agrotech Cold Storage**

**2020-2021**

# Memorandum of Understanding(MoU)

## Department of Physics and Tatyashri Agrotech Cold Storage



Department of Physics,  
Padmabhushan Dr. Vasantrao Dada Patil  
Mahavidyalaya, Tasgaon  
Dist-Sangli  
20/01/2021

To,  
The Principal,  
Padmabhushan Dr. Vasantrao Dada Patil Mahavidyalaya,  
Tasgaon, Dist-Sangli

Subject :- Permission for conducting Certificate course - Operation and  
Management of Cold Storage

Respected Sir,

The department of physics conducting Certificate course of Operation and  
Management of Cold Storage from 25/01/2021.

I kindly request you to give permission for run the above said certificate  
course.

Thanking you.

  
Yours Faithfully,

  
Dr. Ghodake J. S.  
**Head,**  
Department of Physics,  
Padmabhushan Dr. Vasantrao Dada Patil  
Mahavidyalaya, Tasgaon, (Dist. Sangli)

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-Shikshanmahareshi Dr. Bapujisalunkhe

Shri Swami Vivekanand Shikshan Sanstha Kolhapur's  
Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon  
Department of Physics

BOARD OF STUDY

2020-2021

Board of studies member in Certificate course in Operation and Management of Cold Storage are

1	Dr. J. S. Ghodake	Department of Physics, PDVP College, Tasgaon
2	Mr. Digbhar BharatiBuva	Plant Operator, Tatyashri Agrotech Cold Storage, Kavathe-Ekand Tasgaon
3	Mr. B.S. Harale	Department of Physics, PDVP College, Tasgaon
4	Mr. G. S. Pawar	Department of Physics, PDVP College, Tasgaon
5	Mr. D. S. Shinde	Department of Physics, PDVP College, Tasgaon
6	Mr. A. S. Yadav	Department of Physics, PDVP College, Tasgaon

  
Dr. J. S. Ghodake

Department of Physics,  
Padmabhushan Dr. Vasantraodada Patil  
Mahavidyalaya, Tasgaon, (Dist. Sangli)

  
Dr. Milind S. Hujare  
**Principal**

Padmabhushan Dr. Vasantraodada Patil  
Mahavidyalaya, Tasgaon, (Sangli)

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Padmabhushan Dr. Vasantrao Dada Patil Mahavidyalaya, Tasgaon  
Department of Physics

Date 18/01/2021

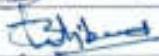
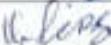
**MEETING NOTICE**

All members of the BOS in Certificate course in Operation and Management of Cold Storage are hereby informed that a meeting is convened on 20/01/2021 at 2.30 p. m. in the departmental cabin. All the respected members are requested to attend the meeting to discuss the following agenda.

**Agenda:**

1. Preparation of syllabus of certificate course
2. Time table and Workload
3. Syllabus distribution
4. Organization of cold storage industrial training program
5. Any other issue raised with prior permission of Chairperson.

Following members are present on this meeting.

Sr. No.	Name of the faculty	Signature
1	Dr. J. S. Ghodake	
2	Mr. Digbhar Bharati Buva	
3	Mr. B.S. Harale	
4	Mr. G. S. Pawar	
5	Mr. D. S. Shinde	
6	Mr. A. S. Yadav	

  
**Dr. J. S. Ghodake**  
**Head,**

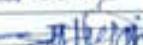
**Department of Physics,**  
**Padmabhushan Dr. Vasantrao Dada Patil**  
**Mahavidyalaya, Tasgaon, (Dist. Sangli)**

### Minutes of Meeting

The minutes of the meeting are given below

1. During the meeting syllabus of certificate course in Operation and Management of Cold Storage was prepared. It contains theory paper of Management of Cold Storage. The responsibility of preparation of syllabus was given to Dr. J. S. Ghodake
2. The issue regarding time table and workload distribution discussed. It has been decided to start course from January 2021. The faculty member is appointed for teaching the syllabus.
3. During the meeting organization of cold storage industrial training program was discussed. The responsibility of organization of cold storage industrial training program is given to teacher Miss A.S. Yadav.

Following members are present on this meeting.

Sr. No.	Name of the faculty	Signature
1	Dr. J. S. Ghodake	
2	Mr. Digbhar BharatiBuva	
3	Mr. B.S. Harale	
4	Mr. G. S. Pawar	
5	Mr. D. S. Shinde	
6	Mr. A. S. Yadav	

  
Dr. J. S. Ghodake  
**Head,**  
**Department of Physics,**  
Padmabhushan Dr. VasantraoDada Patil  
Mahavidyalaya, Tasgaon, (Dist. Sangli)

### **Aims and Objectives**

Students acquire knowledge about functioning and use of electrical –electronic parts of cooling system and accessories. Also create awareness about refrigeration system. The students who completed this course are competent in cold storage system and acquire knowledge about refrigeration system.

After completion of this course students are able to operate cold storage, manage cold storage, repair and maintain cold storage systems and can get job opportunities in a commercial cold storage.

1. Testing of electrical and electronic parameters, cables.  
Trouble shoot the faults in the given power supply circuits.
2. Identify electronics-electrical parts/components/modules of the cold storage.
3. Practice on handling of commodities in cold storage,
4. Handling and combination of commodities in cold storage.
5. Faults finding and rectification of refrigeration system.
6. Practice on operating systems of cold storage

### **Undergraduate students upon graduation with a Bachelor degree in Sciences:**

#### **LEARNING OUTCOMES (knowledge, skills and competence):**

1. Students acquire knowledge about functioning and use of electrical - electronic parts of cooling system and accessories Also create awareness about refrigeration system. The students who completed this course are competent in cold storage, manage cold storage, repair and maintain cold storage system.
2. Operate of cold storage
3. Handle of commodities in cold storage.
4. Repair and maintenance of cold storage system
5. Duration of course: One month.
6. Eligibility to course: 12<sup>th</sup>, B. A., B. Com, B.Sc.
7. Admission: Entire 12<sup>th</sup>, B. A., B. Com, B.Sc. Students.

  
**Mr. A. S. Yadav**  
Co-coordinator

  
**Dr. Vasantrao Datta Patil**  
**Head, Department of Physics, Padmabhushan Dr. Vasantrao Datta Patil Mahavidyalaya, Tasgaon, (Sangli) Maharashtra, India. 412518**

  
**Dr. Milind S. Hujare**  
**Principal**

**Evaluation System:**

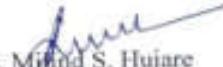
- **Theory paper:** 50 M  
Nature of the Theory examination  
Q. 1) Multiple choice questions.  
Choose the most correct alternative out of four alternatives a, b, c and d
  
- **Practical Course/Training program** 50 M  
Nature of Practical examination/ Training program  
Oral/Viva/discussion

**Certification:** A certificate will be issued on successful completion of the course.

  
Mr. A. S. Yadav  
Co-coordinator

  
Dr. J. S. Ghodake  
**Head,**

**Department of Physics, Padmabhushan Dr. Vasantrao Dada Patil  
Padmabhushan Dr. Vasantrao Dada Patil Mahavidyalaya, Teggaon, (Sangli)  
Mahavidyalaya, Teggaon, (Dist. Sangli)**

  
Dr. Minal S. Hujare  
**Principal**

**Syllabus**  
**Certificate course in**  
**Operation and Management of Cold Storage**

**Unit I Introduction of cold storage-**

(08 hours)

Introduction, need of cold storage system, Thermal conductivity-low thermal conductivity materials and high thermal conductivity materials, study of effect of relative humidity, Controlling ventilation systems,

**Unit II Cold storage design**

(08 hours)

Types of cold storage system: Control atmosphere and cold storage, Temperature controlled cold storage, High humidity cold storage. Types of refrigeration system: Vapor absorption system, Vapor compression system

**Unit III Refrigeration**

(08 hours)

Principle of refrigeration, Classification of refrigeration's and their properties, Components of refrigeration and vapour compression system, Refrigeration cycle: Pressure-volume (P-V) diagram of the process, Temperature – entropy(T-s) diagram of the process, Heat load.

  
Mr. A. S. Yadav  
Co-coordinator

  
Dr. J. S. Ghodake  
**Head,**  
**Department of Physics,**  
Padmabhushan Dr. Vasantrao Dada Patil  
Mahavidyalaya, Teggaon, (Dist. Sangli)

  
Dr. Mitind S. Hujare  
**Principal**  
Padmabhushan Dr. Vasantrao Dada Patil  
Mahavidyalaya, Teggaon, (Sangli)

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Padmabhushan Dr. Vasantrao Dada Patil Mahavidyalaya, Tasgaon**

DEPARTMENT OF PHYSICS

Notice

22/01/2021

All the students of B. Sc. II are hereby informed that, lectures for certificate course in "Operation and Management of Cold Storage" will be started from 25/01/2021 as per timetable.

All students must be remain present in time.



Dr. Ghodake J. S.  
Coordinator



Dr. Milind S. Hujare  
**Principal**  
Padmabhushan Dr. Vasantrao Dada Patil  
Mahavidyalaya, Tasgaon, (Sangli)

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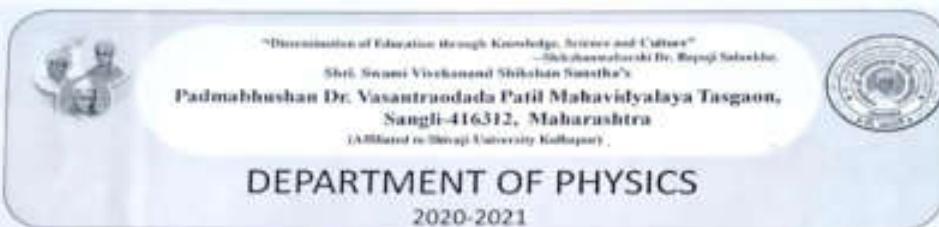
**Padmabhushan Dr. Vasantrao Dada Patil Mahavidyalaya, Tasgaon (Dist.Sangli)**

**DEPARTMENT OF PHYSICS**

Date-22/06/2021

**Notice**

All the B. Sc. II year students are hereby informed that online lectures of certificate course in **OPERATION AND MANAGEMENT OF COLD STORAGE** will be start from 23/06/2021 as per following timetable. Online lecture link and attendance link should be provided on whatsapp group.



**DEPARTMENT OF PHYSICS**

2020-2021

**Time Table For Certificate Course  
OPERATION AND MANAGEMENT OF COLD STORAGE  
B. Sc. II**

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.20 pm to 2.40 pm		Mr. B. S. Harale	Dr. J. S. Ghodake	Miss A. S. Yadav		

Miss A. S. Yadav  
Teacher Incharge

Dr. Jeevan S. Ghodake  
HOD

Dr. Milind S. Hujare  
Principal

Dr. Jeevan S. Ghodake  
**Head,**  
**Department of Physics,**  
**Padmabhushan Dr. Vasantrao Dada Patil**  
**Mahavidyalaya, Tasgaon, (Dist. Sangli)**

Dr. Milind S. Hujare  
**Principal**  
**Padmabhushan Dr. Vasantrao Dada Patil**  
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PadmabhushanDr.Vasantraodada Patil MahavidyalayaTasgaonDist-Sangli

**Department of Physics**

Certificate Course in

**OPERATION AND MANAGEMENT OF COLD STORAGE**

**Time Table**

2019-2020

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8.00am- 11.00am					Practical/ Training program	
10.00am- 11.00am	Theory	Theory	Theory			

Ms. A. S. Yadav  
Co-coordinator

Dr. J. S. Ghodake  
**Head,**  
**Department of Physics, Padmabhushan Dr. Vasantraodada Patil  
Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, (Sangli)  
Mahavidyalaya, Tasgaon, (Dist. Sangli)**

Dr. Milind S. Hujare  
**Principal**

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PadmabhushanDr.Vasantraodada Patil MahavidyalayaTasgaonDist-Sangli

**Department of Physics**

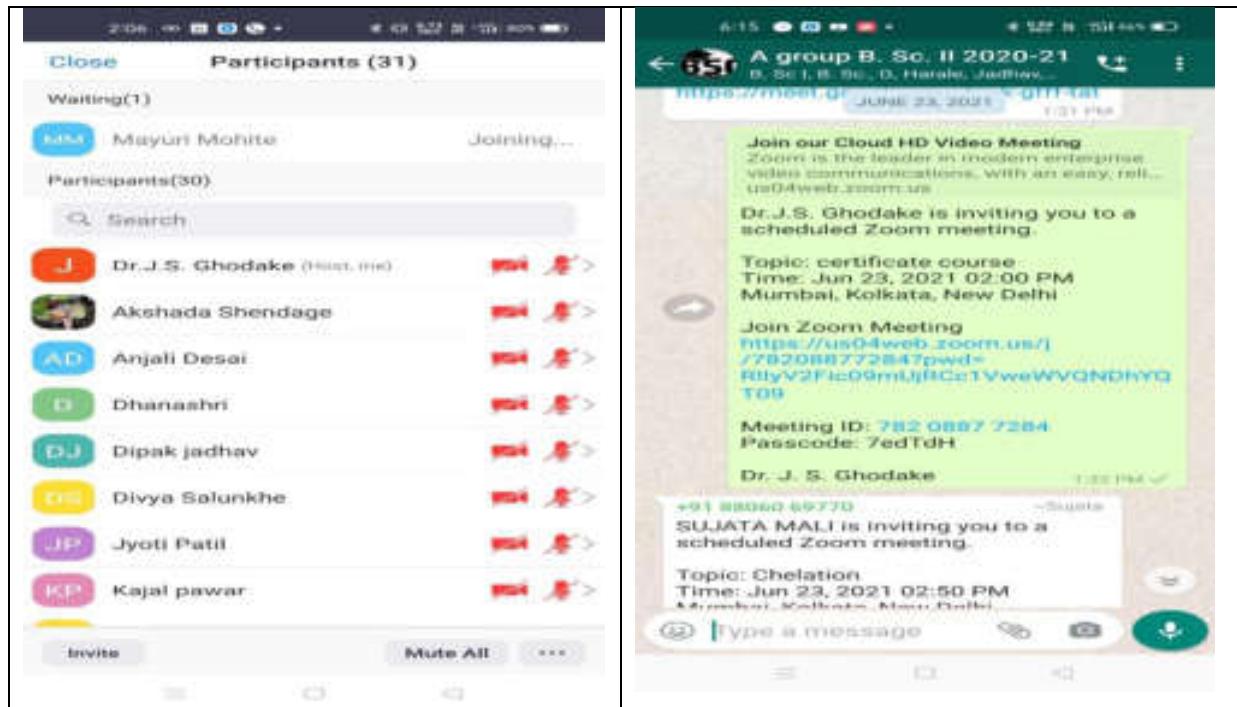
Certificate Course in Operation and Management of Cold Storage

**List of Students 2020-2021**

**B. Sc. II**

Timestamp	Name of the student	Permanent address.	Contact Number.
2021/06/25 12:15:56 PM GMT+5:30	Patil Jyoti Ravasaheb	At Post Kanchanpur, Tal. Miraj, Dist. Sangli-416306	8459003386
2021/06/25 12:15:58 PM GMT+5:30	Thoravat Shweta Rajesh	A/P Kanchanpur, Tal - Miraj Dist - Sangli	7822096232
2021/06/25 12:16:09 PM GMT+5:30	Jadhav Rutuja Dhanaji	A/P Kanchanpur Tal-Miraj Dist-Sangli	8421432175
2021/06/25 12:18:37 PM GMT+5:30	WAGH VARSHALI ARUN	A/p aravade. tal/tasgaon. Dist.sangli	9665824931
2021/06/25 12:21:20 PM GMT+5:30	Rutuja Ramesh Patil	A/p Gavhan, Tal- Tasgaon, Dist-sangli.	9028243729
2021/06/25 12:21:27 PM GMT+5:30	Patil Shreya Sarjerao	At Post Limb Tal-Tasgaon Dist-Sangli	8459698283
2021/06/25 12:24:37 PM GMT+5:30	Pol shubham sunil	Manjarde	9168783814
2021/06/25 12:26:38 PM GMT+5:30	Patil Hanmant Dinkar Dnyaneshwar	A/P Nagaon (ni) Tal-Tasgaon , Dist- Sangli	7391859646
2021/06/25 12:27:05 PM GMT+5:30	Patil Udaykumar Uttam	A/p. Dhavali Tal. Tasgaon Dist. Sangli	8421121166
2021/06/25 12:27:36 PM GMT+5:30	Kadam snehal Mohan	A/P Kumathe , Tal-Tasgaon Dist-Sangli	9356814996
2021/06/25 12:30:29 PM GMT+5:30	Patil Rohan Manik	A/p Manjarde , Tal- Tasgaon ,Dist- Sangli	9284891116
2021/06/25 12:30:43 PM GMT+5:30	Jadhav Dipak Dattajirao	At - Rasulwadi	7517710920
2021/06/25 12:37:29 PM GMT+5:30	Koshti Kartiki Uday	A/p hatnur Tal-Tasgoan Dist- Sangli	8850841185
2021/06/25 12:41:13 PM GMT+5:30	Sakshi Pandit Patil.	Tukai mala, A/P kavalapur	9970061716
2021/06/25 12:43:10 PM GMT+5:30	Shinde Sourabh Ganesh	A/P : Bhilawadi,Tal :Palus, Dist : Sangli.	8600868560
2021/06/25 1:08:57 PM GMT+5:30	Shubham Sadashiv Thorwat	A/P Arwade	9022741608
2021/06/25 1:10:06 PM GMT+5:30	Vaibhav prafull pawar	A t kumathe tal tasgoan dist sangli	7757888418
2021/06/25 1:22:47 PM GMT+5:30	Saravade Roshan ChandraKant	A/P . Gavhan, Tal. Tasgaon, Dist. Sangali	7410116459
2021/06/25 1:23:10 PM GMT+5:30	Anurag Rajesh Chavan	Near HP Gas Factory Bhilawadi Station	9834960075
2021/06/25 1:24:13 PM GMT+5:30	Shinde Dhanashri Vilas	A/P - Balagavde Tal - Tasgaon Dist - Sangli	9730454160
2021/06/25 1:25:17	Desai Anjali Dinkar	A/P-Dhavali, Tal-	9579432422

PM GMT+5:30		Tasgaon, Dist-Sangli.	
2021/06/25 2:08:18 PM GMT+5:30	Parth Sarjerao Thorat	A/P – Borgaon, Tal – Tasgaon, Dist – Sangli	8767334178
2021/06/25 2:19:11 PM GMT+5:30	Rohit Mahadev Lokhande	A/P Hatnur	7385855006
2021/06/25 2:30:47 PM GMT+5:30	NARUTE ABHISHEK SHAMRAO	AT TURCHI TAL TASGAON DIST SANGLI MAHARASHTRA	9011923950
2021/06/25 2:52:05 PM GMT+5:30	Vikram Gunda Hankare	A. p. Savalaj Tal. Tasgaon Dist. Sangli	9011925286
2021/06/25 3:02:04 PM GMT+5:30	Mohite Mayuri Abaso	A/P:Manjarde , Tal:Tasgaon , Dist:Sangli.	9404490755
2021/06/25 5:18:27 PM GMT+5:30	Patil Nikhil vijay	A/p Nagaon (Ni) tal-tasgaon dis-sangli	8669866973
2021/06/25 5:55:53 PM GMT+5:30	Samruddhi Sandeep Vadgave	Somvaar peth, Tasgaon	9404757800
2021/06/25 5:56:57 PM GMT+5:30	Kanta Anant Gujar	Dattamal ganesh colony behind p. d. v. p college Tasgaon	8421272437
2021/06/25 7:41:26 PM GMT+5:30	Pawar Kajal vishnu	A/p Manerajuri Tal-Tasgaon Dist-sangli	9356548058
2021/06/25 9:06:11 PM GMT+5:30	Nikita chavan	Aravade tal tasgoan dist sangali	8830844420
2021/06/26 9:53:46 AM GMT+5:30	Shinde pranali jalindar	Ap manerajuri tal tasgav dist sangli	9356701378
2021/06/26 10:10:17 AM GMT+5:30	Pawar Pratik nandkumar	A/p manerajuri	8459357369
2021/06/26 11:15:54 AM GMT+5:30	Shubham Prakash Patil	A/p Tasgaon	9325690638
2021/06/26 2:29:20 PM GMT+5:30	Salunkhe Shivani Shivaji	A/P Matkunki tal-Tasgaon dist -Sangli	8830886953
2021/06/26 2:47:55 PM GMT+5:30	Gautam Vijay Shinde	Guruwar peth Tasgaon	9175773452
2021/06/26 3:28:59 PM GMT+5:30	Pisal Nivedita Shankar	At/ post Yelavi Tal – Tasgaon, Dist – Sangli	9309897238
2021/06/27 5:13:47 PM GMT+5:30	Mali Omkar Jagadish	A/P. Kavalapur	7620109873
2021/06/28 12:24:53 PM GMT+5:30	Mane mayuri mahadev	A/T Nagaon (ni) tal-tasgaon dis-sangli	9307629907
2021/06/29 11:19:57 AM GMT+5:30	PATIL SUYASH UTTAMRAO	A/P Vasumbe, Tasgaon	9960896235
2021/06/29 3:32:48 PM GMT+5:30	Salunkhe Divya Shahaji	A/P-Nimblak	8605389916
2021/06/29 4:01:23 PM GMT+5:30	More Pratiksha Ravaheb	A/P Biranwadi Tal- Tasgaon, Dist-Sangali	9022889244
2021/07/01 7:19:07 PM GMT+5:30	Rohan Dattatray Gaikwad	A.P Borgaon Tal- Tasgaon dis- sangli	7767832019
2021/07/02 2:29:23 PM GMT+5:30	Bhosale Sayali Shankar	A/p-yogewadi, tal-tasgaon, dist-sangali.	7264873662
2021/07/07 7:31:18 PM GMT+5:30	Jadhav pranali Anil	A/P Kumathe Tal-Tasgaon Dist-Sangli	7620506327
2021/08/11 9:39:04 PM GMT+5:30	Patil Komal Ramesh	A/P-Nimblak Tal- Tasgaon Dist- Sangli	7666099747



6:17 \* 52% M 10:48% ☼

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JUNE 23, 2021

Topic: certificate course  
Time: Jun 23, 2021 02:00 PM  
Mumbai, Kolkata, New Delhi

Join Zoom Meeting  
<https://us04web.zoom.us/j/78208877284?pwd=IllyV2Fic09mUjRtCe1VwvWVQNDIVQTO9>

Meeting ID: 782 0887 7284  
Passcode: 7edTdH

Dr. J. S. Ghodake

+91 90282 12256 joined using this group's invite link

Padmabhushan Dr.  
Vasenraoddada Patil  
Mahavidyalaya, Taegaon, (D...  
[docs.google.com](https://docs.google.com)

B. Sc. II (2pm, 23/06/2021)  
Attendance link:  
<https://forms.gle/cSF325vPEyINhu9Y>

Dr. J. S. Ghodake

+91 90282 12256

Type a message

6:16 \* 52% M 10:48% ☼

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Department of Physics  
Dr. Jeevan S. Ghodake  
Miss Ankita S. Yadav

Join our Cloud HD Video Meeting  
Zoom is the leader in modern enterprise video communications, with an easy, reliable web-based video meeting.

Dr.J.S. Ghodake is inviting you to a scheduled Zoom meeting.

Type a message

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"Certificate course Phy"  
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JUNE 23, 2021

Philip Vasdev Mehta  
All the students are here by informed that we are going to conduct certificate course of "Operation and management of cold storage". Kindly register your names for this certificate course to fill the following google form.

Google form link:  
<https://forms.gle/e7LEBVzJiy4tch9yB>

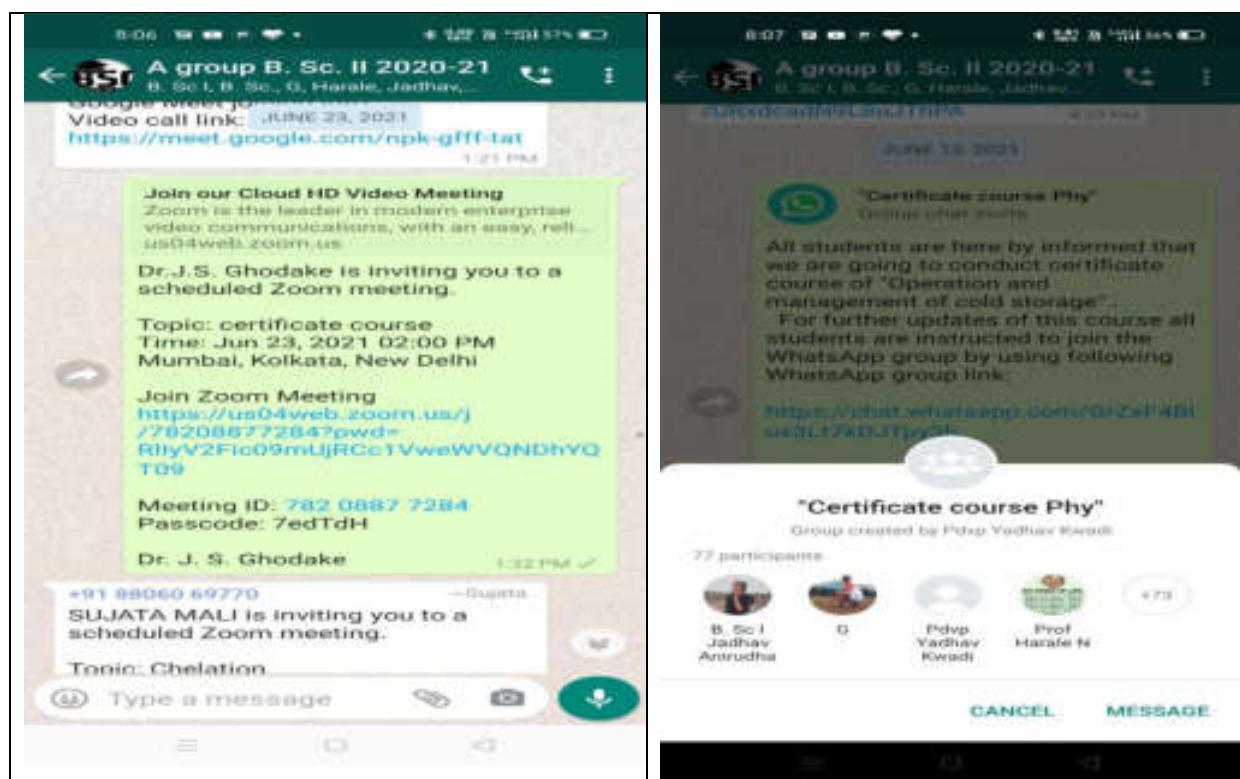
Department of Physics  
Dr. Jeevan S. Ghodake  
Miss Ankita S. Yadav

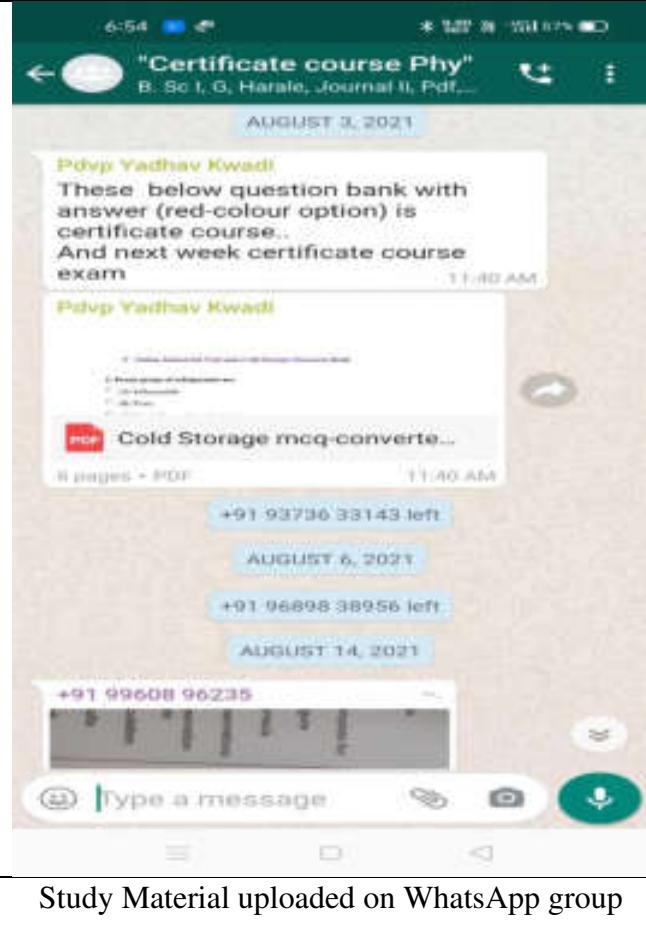
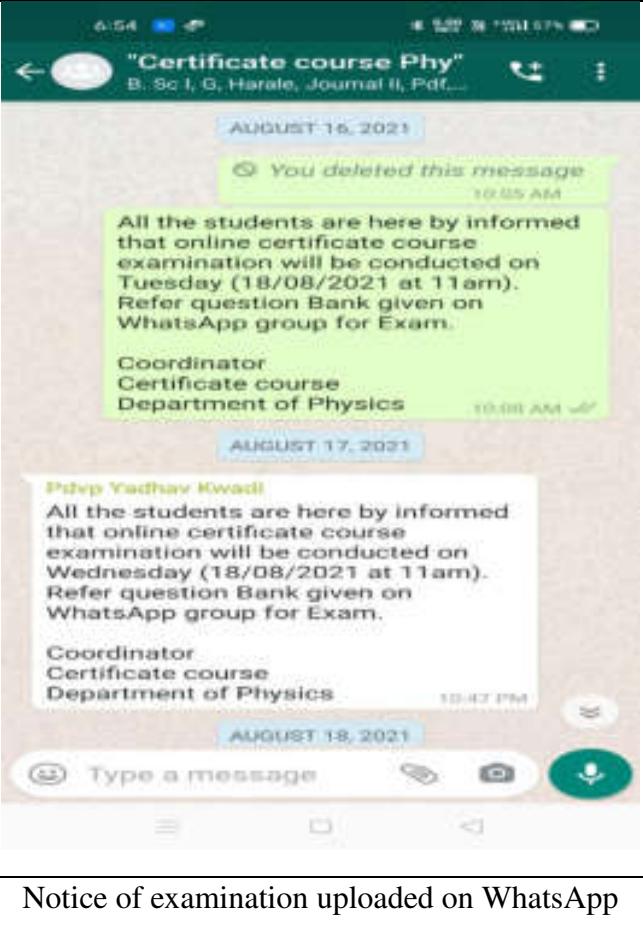
Philip Vasdev Mehta  
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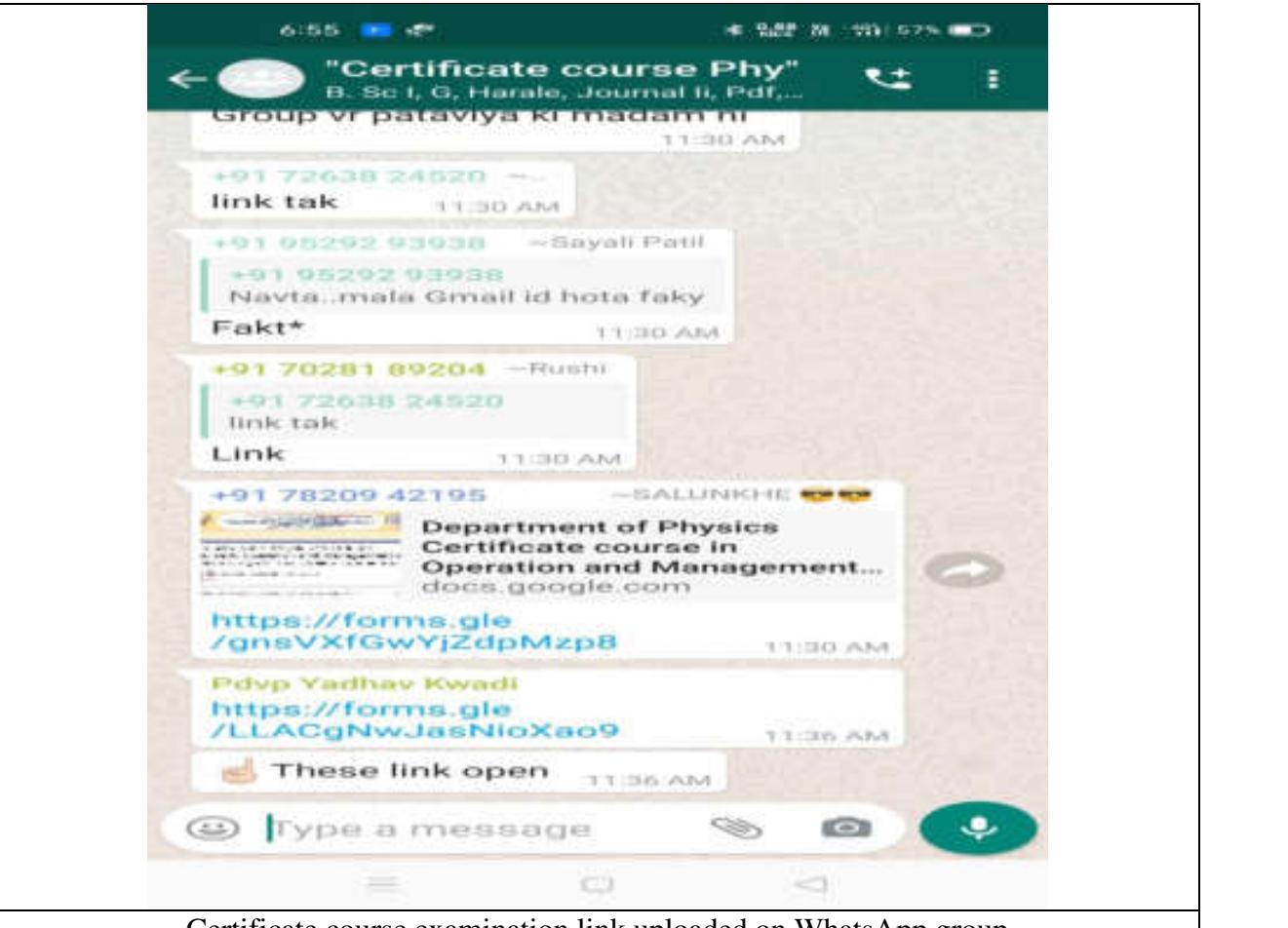
Google form link:  
<https://forms.gle/e7LEBVzJiy4tch9yB>

Department of Physics  
Dr. Jeevan S. Ghodake  
Miss Ankita S. Yadav

Type a message



 <p>Pdvp Yadhav Kwadi These below question bank with answer (red-colour option) is certificate course.. And next week certificate course exam</p> <p><b>Cold Storage mcq-converte...</b></p> <p>8 pages • PDF 11:40 AM +91 93736 33143 left AUGUST 6, 2021 +91 96898 38956 left AUGUST 14, 2021 +91 99608 96235</p>	 <p>You deleted this message 10:05 AM All the students are here by informed that online certificate course examination will be conducted on Tuesday (18/08/2021 at 11am). Refer question Bank given on WhatsApp group for Exam.</p> <p>Coordinator Certificate course Department of Physics</p>
Study Material uploaded on WhatsApp group	Notice of examination uploaded on WhatsApp group

 <p>+91 72638 24520 link tak 11:30 AM +91 95292 93938 Sayali Patil +91 95292 93938 Navta..mala Gmail id hota faky Fakt* 11:30 AM +91 70281 69204 Rushi +91 72638 24520 link tak Link 11:30 AM +91 78209 42195 SALUNKHE Department of Physics Certificate course in Operation and Management... docs.google.com https://forms.gle /gnsVXfGwYjZdpMzp8 11:30 AM Pdvp Yadhav Kwadi https://forms.gle /LLACgNwJasNloXao9 11:36 AM These link open 11:36 AM</p>
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Certificate course examination link uploaded on WhatsApp group

### Marksheet

Timestamp	Total score	Name of student	Roll no.
2021/08/18 11:26:55 AM GMT+5:30	48.00 / 50	Jadhav Pranali Anil	5705
2021/08/18 11:27:12 AM GMT+5:30	50.00 / 50	Rutik vinayak Salunkhe	5715
2021/08/18 11:27:37 AM GMT+5:30	42.00 / 50	Saurabh Manik Suryawanshi	5837
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2021/08/18 11:34:36 AM GMT+5:30	50.00 / 50	Kadam snehal Mohan	5672
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## Certificate



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ENTREPRENEURSHIP AND SKILL DEVELOPMNT CENTER**

### **CERTIFICATE**

This is to certify that Mr./Ms. Rutuja Ramesh Patil

Class B. Sc. II has successfully completed the certificate course  
in Operation and Management of Cold Storage  
conducted by the department of Physics during  
the academic year 2020 - 2021

**Head**  
**Head,**

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**Coordinator**

**Principal**  
Padmabhushan Dr. Vasantrao Dada Patil  
Mahavidyalaya, Tasgaon, (Sangli)

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Padmabhushan Dr. Vasantrao Dada Patil  
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