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## **ARUNAMAI COLLEGE OF PHARMACY**

● Gat No 285, Vidgaon Road, Mamurabad, Jalgaon, (MS) 425002

Approved by PCI, New Delhi & Affiliated to KBC North Maharashtra University, Jalgaon

● www.acopmamurabad.com | ● jalpharmaedu@gmail.com | ● 9403739090 | 9403710774

**Nanasaheb R. G. Patil**  
(President)

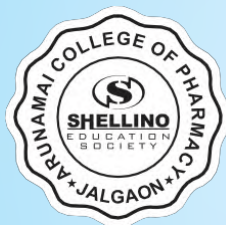
**Dr. T. A. Deshmukh**  
(Principal)

## **Criteria 2- Teaching- Learning and Evaluation**

### **2.3. Teaching- Learning Process**

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**2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences using ICT tools**  
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**Academic Year 2018-19**  
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**Nanasaheb R. G. Patil**  
(President)

**Dr. T. A. Deshmukh**  
(Principal)

### Problem Solving Learning:

#### Academic Year 2018-19

Sr. No	Title
01	Tutorial
02	Under Graduate Projects
03	One Day Workshop on Practical Approach to Handling and Processing of Pharmaceutical Equipments.
04	State Level Seminar on Clinical research current requirements and Scope for Pharmacy Professionals

Name :- Sanjana Sanjay Ambhore

Roll no :- 202

Class :- S.Y.B.Pharm Sem :- IV

Subject :- Physical Pharmaceutics - II.

INDEX

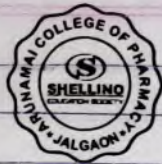
2018-19

Assignment no. #	Date	marks	Sign.
Assignment no 1	13/12/19	9/10	
Assignment no-2	20/12/19	9/10	
Assignment no-3	10/1/19	10/10	
Assignment no-4	17/1/19	9/10	
Assignment no-5	22/1/19	9/10	
Assignment no-6	31/1/19	9/10	
Assignment no-7	7/2/19	9/10	
Assignment no-8	21/2/19	9/10	
Assignment no-9	28/2/19	9/10	
Assignment no-10.	7/3/19.	9/10.	

Average =  $\frac{9.1}{10}$



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Mamurabad, Jalgaon (M.S.)

**Tutorial Sheet 2018 - 2019**

Name: Sanjana Sanjay Ambhore Roll No.: 202

Subject: Physical Pharmaceutics - II Date: 12/12/2019

Class: B. Pharm. I/II/III/IV Year Semester IV Sessional: I/II

Supplement No. 1+ =

*(Handwritten signature/initials)*

Start Writing From Here

Assignment 1

Q1. Define and classify colloids and give their general characteristics.

→ A colloid is a mixture in which one substance of microscopically dispersed insoluble particles are suspended throughout another substance. Sometimes the dispersed substance is called colloids.

Colloids are classified on basis of nature of interaction between dispersed phase and dispersion phase.

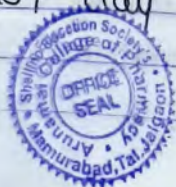
- ① Hydrophilic colloids.
- ② Hydrophobic colloids.

① Hydrophilic colloids: -

- These are water loving colloids.
- The colloid particles are attracted towards the water.
- They are also known as Reversible sols.
- Examples - Agar, Gelatin and pectin, etc.

② Hydrophobic colloids -

- These are opposite in nature of hydrophilic colloids.
- The hydrophobic colloids are water hating colloids.
- The colloid particles are repelled by water.
- They are also called Irreversible salts.
- Examples - gold sols, clay particles, etc.



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## 4 General Characteristics.

### 1) Charge on particles -

Particles of hydrophilic sols may have little or no charge at all. Particles of hydrophobic sols carry positive or negative charge which gives them stability.

### 2) Solvation -

Hydrophilic sol particles are generally solvated that is they are surrounded by adsorbed layer of dispersion medium which does not permit them to ml together and coagulate.

### 3) Viscosity -

Hydrophilic sols are viscous as the particle size increases due to solvation and the proportion of free medium decreases. Warm solution of dispersed phase on cooling set to gel.

Viscosity of hydrophobic sols is almost the same as of dispersion medium itself.

### 4) Precipitation -

Hydrophilic sols are precipitated only by high concentration of electrolytes when the sol particles are.

Hydrophobic sols are precipitated even by low concentration of electrolytes.

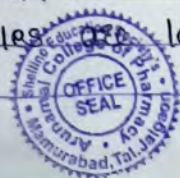
### 5) Reversibility -

The dispersed phase of hydrophilic sols when separated by coagulation can be reconverted into colloidal form just on mixing dispersed medium. Thus are reversible sols.

### 6) Tyndall Effect -

Due to small particle size, hydrophilic sols do not scatter light and show no tyndall effect.

Hydrophobic sol particles are large enough to exhibit tyndall effect.



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Q2. Describe optical properties of colloids.

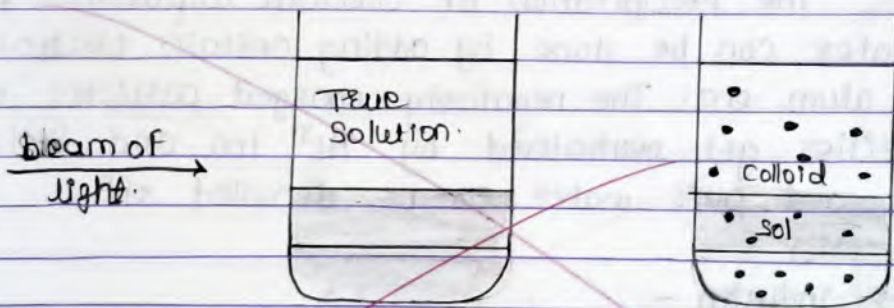
1] Sols exhibit Tyndall effect -

The phenomenon of scattering of light by sol particles are called Tyndall effect.

If the sol particles are large enough. The sol may even appear liquid in ordinary light as a result Tyndall scattering.

True solution do not show Tyndall effect.

Solute molecules are too small to scatter light beam of light passing through a true solution is not visible when viewed from side. Thus, Tyndall effect can be used to distinguish a colloidal solution from true solution.



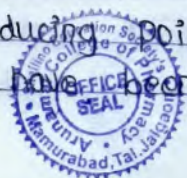
2] Ultramicroscope shows up presence of individual particles.

The zone of scattered light is observed to be much larger than particle itself this makes the particles to appear as tiny bright spot when viewed under ultramicroscope. This has to be done at right angle to beam of light. Ultramicroscope does not give any information regarding shape and size of sol particles.

3] Sols under microscope -

In this microscope, beam of electron is focused by electric and magnetic field on to photographic plate. This focused beam is allowed to pass through film of sol particle including paint pigments, viruses and bacteria. This particles have been found to be spheroidal rod like

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disc like, etc.

## Applications -

### ① Medicine -

Medicines are colloidal form of easily absorbed by body tissue and hence are more effective.

### ② Cleaning action of Soap -

Soap solution is colloidal in nature. It removes the dirt particles either by adsorption or by emulsifying the greasy matter sticking to both.

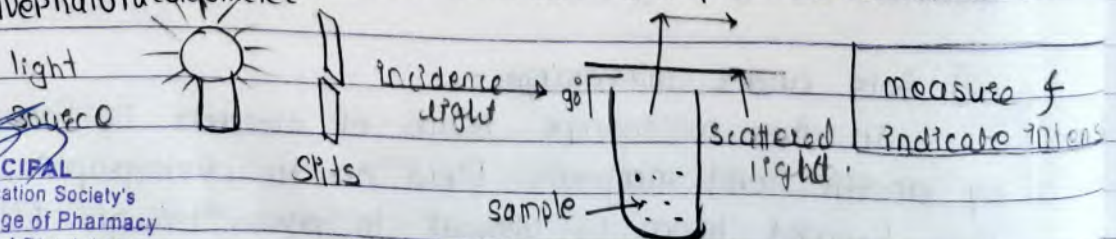
### ③ Purification of water -

The precipitation of colloidal impurities present in water can be done by adding certain electrolytes like alum, etc. The negatively charged particles of impurities get neutralised by  $Al^{3+}$  ion and settle down and pure water can be decanted off.

### ④ Rubber industry -

Latex is colloidal solution of negatively charged rubber particles. From latent rubber can be obtained by coagulation. Rubber plated particle are prepared by depositing negatively charged rubber.

\* Turbidity - It's measured by intensity. There are different methods to determine turbidity i.e. ① Spectrophotometry method ② Colorimeter method ③ Nepheloturbidometer.



When amount of dispersed particles are low, the intensity of scattered light is measured at right angle to direction of incident light.



**Arunamai College of Pharmacy Mamurabad**  
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**List of Students Undertaking Project Work in 2018-19**

Sr. No.	Name of Students	Project Title	Name of Guide
1.	AHIRRAO MAHANANDA GANPATRAO	Solubility Enhancement By Hydrotropy and Mix Hydrotropy	Prof. Tushar D. Fegade
2.	PANDHARE BHIMA RAYBHAN		
3.	PATHAN TAUSIF KHAN NAEEM KHAN		
4.	PATIL RAHULKUMAR RANCHHODBHAI		
5.	HIWARKAR ANIKET ASHOKRAO		
6.	BADGUJAR HARSHAL RAJENDRAKUMAR	Extraction Technique of Medicinal Plants	Prof. Nilesh B. Chaudhari
7.	JADHAV AKSHAY AKOSH		
8.	PATEL MUQSUDE AB AZIZ		
9.	PATIL RAJSHREE NIVRUTTI	Cinnamon: A Magical Drug	
10.	SAVKARE BHUSHAN SUDHAKAR		
11.	BORASE ASHWINI SUDHAKAR	Good Manufacturing Practices: A Tool to Built Quality Product	Prof. Samir N. Patil
12.	JOSHI KARUNA PRAKASH		
13.	JADHAV DEEPAK TUKARAM		
14.	YEOLE TEJASHREE SATISH		
15.	RANE NAYAN BHASKAR	Pilot Plant Scale Up Technique: An Important Tool for Optimization of Large Scale Production	
16.	BHAGAT MAYUR MADHUKARRAO	Study of Organometalic Compound RP- HPLC Method Development and Validation for the Estimation of Nilotinib in Bulk and Tablet Dosage Form	Prof. Khushabu R. Patil
17.	THORAT TEJASWINI ANIL		
18.	SHINDE DIPTI GAUTAM		
19.	PATIL PRAGATI MANIK		
20.	RADE AAKANKSHA PRAKASH		
21.	BHARAMBE AKASH SHIVAJI	Genitourinary Tuberculosis	Prof. Mayur A. Chaudhari
22.	SAWALE SWARUPA VIJAY	Review on Leishmaniasis	
23.	PATIL ANAGHA PRASHANT	Review on Supranuclear Palsy Disorder	
24.	PATIL SAGAR RAVINDRA	Review on Blighted ovum	
25.	SHAIKH SUFIYAN SHAIKH ZAFAR	Review on Anal Cancer	
26.	BARANGE RAKESH MAROTRAO	Review on Neem	Prof. Gunjan S. Patil
27.	DEORE BHAGYASHRI SAHEBRAO	Review on Dermatitis Herpetiformis	
28.	DUTONDE PALLAVI SUDHAKAR		
29.	SHELKE AKSHATA VAIBHAV	Motor Neuron Disease	
30.	PATIL VARSHA BAPU		
31.	CHAUDHARI AKSHAY VISHWANATH	Analysis of Pharmaceutical by Electrochemical Methods	Prof. Kalpesh V. Sonar
32.	PATIL VARSHADA CHANDRAKANT		
33.	KUWAR ASHWINI VIJAY	To Develop and Validate UV Spectroscopic Methods for Ivabradine HCL from Ivabradine HCL Tablets	
34.	PATIL ASHWINI PANDITRAO		
35.	JADHAV KANCHAN DHARASING		
36.	CHAUDHARI JAYSHREE PRAMOD	Recent Trends in Gene Therapy	Prof. Pawan R. Badgujar
37.	KUWAR KALYANI RAMESH		
38.	PATIL MUKESH ARUN		
39.	PATIL VRUSHABH SANJIV		
40.	SHINDE RUSHIKESH VITTHALRAO	Process of Soap Making and Quality Factors	



  
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41.	LADVANJARI TUSHAR BHANUDAS	Nanochip technology for Diagnosis of CVD	<b>Prof. Nilesh I. Patil</b>
42.	CHAUDHARI KUNAL NITIN		
43.	PATIL NANABHAU RAMSING		
44.	PAWAR AYUSHI MILIND	Formulation and In vitro Evaluation of Transdermal Aloe vera Gel	
45.	SOMVANSHI KARAN CHANDRASHEKHAR	Review on Nail Drug Delivery System	
46.	PATIL RUPESH RAMKRISHANA		
47.	KHAN SAQUIB KHAN SABIR	Recent Advancement in Contraceptives	<b>Prof. Girish S. Vispute</b>
48.	MAHAJAN SHUBHAM VISHWANATH		
49.	PATIL AKSHAY SANJAY		
50.	PAWAR ROSHAN SUBHASH		
51.	SURWADE ASHVINI ANIL		
52.	VALVI ASHISH MANOJ		
53.	PATIL ASHWINI PANDHARINATH	Review on Wound Healing	<b>Prof. Abrar A. Shaikh</b>
54.	PATIL PRATI KSHA AJABRAO		
55.	QURESHI SAJID KHAN ASLAM KHAN	Review on Hypertension	
56.	NARKHEDE DIPAK SUDHAKAR		
57.	TALELE DEVENDRA ONKAR		
58.	TIWARI PARAS SANJAY		
59.	GAVANDE KALYANI VIJAY	Recent Therapeutic Advances used in Local Anesthetic	<b>Prof. Neha A. Porwar</b>
60.	NARKHEDE RITESH DINKAR	Newer Drug Delivery System in Anesthesia	
61.	PATIL PREMSING MANSING	Role of Chitosan in Weight Loss	
62.	PATIL RUSHIKESH MANSING	Malefic in Food and their Essential Controls	
63.	SHAIKH MUSHAHID ARIFTHAKARE	Newer Drug Delivery System for Diabetes	
64.	THAKARE DEEPESHKUMAR RAMESH	Role of Disintegrants in Tablets	

**Project Coordinator**  
**Prof. S. N. Patil**



**Principal**  
**Dr. T. A. Deshmukh**

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(President)

**Dr. T. A. Deshmukh**  
(Principal)

### Activity Report 2018-19

**Title of Activity/Event** : One Day Workshop on Practical Approach to Handling and Processing of Pharmaceutical Equipments.

**Date** : 29<sup>th</sup> March 2019

**Venue** : Haffkine Ajintha Pharmaceutical Ltd., Jalgaon

**In Charge of Activity** : Mr. S. N. Patil

Mr. T. D. Fegade

**Objective of Activity** : The objective of the Workshop on Practical Approach to Handling and Processing of Pharmaceutical Equipment is to enhance knowledge and skills of students and staff for effective and efficient utilization of equipment, ensuring optimal performance and compliance with industry standards.

**No. of Participants** : 46

**Description of activity** : The workshop was jointly organized by Arunamai College of Pharmacy, Mamurabad and Haffkine Ajintha Pharmaceutical Ltd. Jalgaon at Haffkine Ajintha Pharmaceutical Ltd. Jalgaon on 29<sup>th</sup> March 2019. In this workshop approximate 46 students has participated along with staff. The success of this program is attributed to the collaborative efforts of dedicated staff members, including Mr. Samir N. Patil, Mr. T. D. Fegade, and enthusiastic students. Their combined commitment and hard work ensured the workshop's

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(Principal)

effectiveness in imparting practical knowledge on handling and processing of pharmaceutical equipment.

**Outcome of Activity:**

The outcome of this Workshop is Enhanced understanding and proficiency in the proper handling and processing of pharmaceutical equipment, ensuring safety, accuracy, and compliance with regulatory requirements. Improved operational efficiency by implementing best practices and optimizing equipment usage, resulting in streamlined manufacturing processes and reduced downtime.



  
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Shree Nanasaheb R. G. Patil  
President

Dr. Tushar A. Deshmukh  
Principal

दि २५/०३/२०१९

## सुचना

सर्व चतुर्थ वर्ष बी. फार्मसीच्या विद्यार्थ्यांना सूचित करण्यात येते की, दि.२९/०३/२०१९ वार शुक्रवार रोजी Haffkin Ajintha Pharmaceutical Ltd, Jalgaon येथे Practical Approach To Handling and Processing Pharmaceutical Equipments या विषयावर एक दिवसीय कार्यशाळा आयोजित केलेली आहे. तरी सर्व विद्यार्थ्यांनी कार्यशाळेला उपस्थित राहावे.

टीप : जे विद्यार्थी अनुपस्थित राहतील त्यांचे जरनल सर्टीफिकेट केले जाणार नाही.

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Shree Nanasaheb R. G. Patil  
President

Dr. Tushar A. Deshmukhi  
Principal

Date: 25/03/2019

To,

The Manger / General Manager

Haffkine Ajintha Pharmaceuticals Limited

B-4, MIDC, Jalgaon, 425003.

**Subject:** Permission for Conducting Workshop on Handling of Pharmaceutical Equipments

Respected Sir/Madam,

We are taking an initiative to educate the college students about the handling of pharmaceutical equipments in order to increase their knowledge about the way things work in the pharmaceutical industry and processing of different equipments. As you know, to meet the industry's dynamic needs, it is very important that this workforce is adequately trained; hence this important information can help them to choose their role in pharmaceutical industry.

For conducting such workshop, we need your support to permit us for bringing this thought into reality. Our plan is to visit industry and learn about different scenario with Pharma equipment. You are requested to give your permission for such workshop on dated 29<sup>th</sup> March 2019. Our team informs you timely about the workshop.

I hope you will allow us the opportunity to conduct workshop at your industry and meet your skilled staff. I anticipate a positive response from your end.

Thanks and Regards,

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# Haffkine Ajintha Pharmaceuticals Ltd.

(A Govt. Of Maharashtra Undertaking)

**Factory :** B - 4, M.I.D.C. Industrial Area, Ajantha Road, Mehrun, Jalgaon - 425003  
Tel.:(0257) 2270119, 2210093 Fax No.:(0257) 2210233  
E-mail : hapl\_jalgaon@rediffmail.com

Date: 29<sup>th</sup> March 2019

## Certificate

This is to certify that Final Year B.Pharm Students along with staff of SES Arunamai College of Pharmacy, Mamurabad ,Jalgaon were visited our plant on 29<sup>th</sup> March 2019 for performing workshop on Practical Approach To Handling and Processing of Pharmaceutical Equipments.

In this workshop students were learned about all the aspects of handling and processing of different pharmaceutical equipments like Rapid Mixing Granulators , F.B.D., Tablet Compression Machine (45 station)Semi automatic Capsule Filling (AF 25) Machine etc.

Thanking you ,

Yours Sincerely

*Tushar R. Chaudhari*  
29/03/2019

(Tushar R. Chaudhari)

I/C Quality Assurance

Haffkine Ajintha Pharma.Ltd.



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Mamurabad, Jalgaon



One Day Workshop on

# Practical Approach To Handling and Processing of Pharmaceutical Equipments

Day & Date : Friday, 29<sup>th</sup> March 2019

Jointly Organized By

**Haffkine Ajintha Pharmaceuticals Limited**  
**Jalgaon**




  
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Attendance Report

Sr. No.	Name Of Student	Signature
1.	BARI JAYESH VASANT	
2.	BHOI DIPALI MADHUKAR	
3.	BHOLE MADHURI ANIL	
4.	CHAUDHARI KAMLESH NARAYAN	
5.	CHAVAN SHUBHAM PRADIP	
6.	CHAVHAN ARCHANA BHAGVAN	
7.	DESHMUKH MD ALTAF MD JAHANGIR	
8.	DHAKE SNEHAL DINKAR	
9.	JAISWAL SHUBHAM VINOD	
10.	KOLEKAR MAHESH DATTU	
11.	KOLHE HARSHAL SANTOSH	
12.	KOLI ROHINI SANJAY	
13.	KOLI UMESH RAGHUNATH	
14.	LAWANE LOKESH ARJUN	
15.	MAHAJAN PANDURANG RAJU	
16.	MAHAJAN SACHIN VALMIK	
17.	MAHALE VAIBHAV SANTOSH	
18.	MANURE SANDESH GULABRAO	
19.	MISHRA CHANDAN SHAMLAL	
20.	NIMBALKAR PRACHI SHAMKANT	
21.	PALVE ARJUN BABASAHEB	
22.	PATEL ASLAM SALIM	
23.	PATHAN SAFTIN RAJAKHAN SAIDKHAN	
24.	PATIL AKASH SUDHAKAR	
25.	PATIL AKSHAY DNYANESHWAR	
26.	PATIL AMOL RAVINDRA	
27.	PATIL BHUSHAN BHAGWAN	
28.	PATIL CHANDRAKANT ASHOK	
29.	PATIL DHARMRAJ SITARAM	
30.	PATIL DIKSHITA ARJUN	
31.	PATIL DIPALI RAJENDRA	
32.	PATIL DIPALI TARACHAND	



  
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Attendance Report

Date: - 29/03/2019

33.	PATIL DNYANESHWAR SAKHARAM	<i>Patil</i>
34.	PATIL HARSHALA BALU	<i>Harshala</i>
35.	PATIL MAHESHWARI SANJAY	<i>Sanjay</i>
36.	PATIL MAYUR BHAUSAHEB	<i>Mayur</i>
37.	PATIL PRATIKSHA JITENDRA	<i>Pratiksha</i>
38.	PATIL ROHIT ANIL	
39.	PATIL ROHIT RAMESH	<i>Rohit</i>
40.	PATIL RUPALI SHIVLAL	<i>Rupali</i>
41.	PATIL SACHIN DNYANESHWAR	
42.	PATIL SHUBHAM PRABHAKAR	<i>Shubham</i>
43.	PATIL SUWARNA BHAGWAT	<i>Suvarna</i>
44.	PATIL SWARNIL ARUN	<i>Swarnil</i>
45.	PAWAR HARSHAL SHAILESH	<i>Harshal</i>
46.	RAJGURE RAVINDRA SURESH	<i>Rajgure</i>
47.	RATHOD BHUSHAN CHARANDAS	
48.	RATHOD PRUTHVIRAJ BHAGINATH	<i>Pruthviraj</i>
49.	SANAP GANESH MADHUKAR	<i>Sanap</i>
50.	SHAIKH IMRAN SHAIKH SHABBIR	<i>Imran</i>
51.	SHAIKH JAVED SK PYARESAHEB	<i>Javed</i>
52.	SHINDE ANIL VITTHAL	
53.	SHIRODE PRAJAKTA SUNIL	<i>Prajakta</i>
54.	SONAR PRATIK ANIL	<i>Pratik</i>
55.	TAYADE DARSHANA RAJENDRA	<i>Darshana</i>
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## CERTIFICATE

*This is certified that,*

Prof./Dr./Mr./Mrs./Ms. Patel Aslam Salim

has participated as a Resource Person / Presenter / Volunteer / Delegate in the One Day Workshop on  
*"Practical Approach to Handling and Processing of Pharmaceutical Equipments"*

*Jointly Organized by*

**Haffkine Ajintha Pharmaceutical Limited, Jalgaon**

*At Jalgaon on Friday 29 March 2019*

**Mr. T. R. Chaudhari**

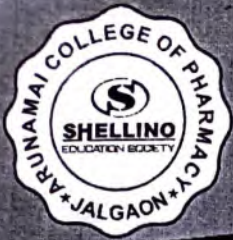
In-charge (Quality Assurance)  
Haffkine Ajintha Pharmaceutical Ltd., Jalgaon



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Shellino Education Society's  
Arunamai College of Pharmacy  
Mamurabad, Tal. Dist. Jalgaon

**Dr. T. A. Deshmukh**

Principal and Convener



Shellino Education Society's  
**Arunamai College of Pharmacy,**  
Mamurabad, Jalgaon



## CERTIFICATE

*This is certified that,*

Prof./Dr./Mr./Mrs./Ms. Lawane Lokesh Arjun

has participated as a Resource Person / Presenter / Volunteer / Delegate in the One Day Workshop on  
*“Practical Approach to Handling and Processing of Pharmaceutical Equipments”*

*Jointly Organized by*

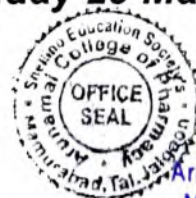
**Haffkine Ajintha Pharmaceutical Limited, Jalgaon**

**At Jalgaon on Friday 29 March 2019**

**Mr. T. R. Chaudhari**

In-charge (Quality Assurance)

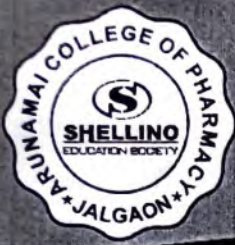
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## CERTIFICATE

*This is certified that,*

Prof./Dr./Mr./Mrs./Ms. Bhole Madhuri Anil

has participated as a Resource Person / Presenter / Volunteer / Delegate in the One Day Workshop on  
*"Practical Approach to Handling and Processing of Pharmaceutical Equipments"*

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*At Jalgaon on Friday 29 March 2019*

*Chaudhari*  
**Mr. T. R. Chaudhari**

In-charge (Quality Assurance)

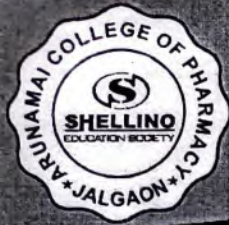
Haffkine Ajintha Pharmaceutical Ltd., Jalgaon



*[Signature]*  
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Arunamai College of Pharmacy  
Mamurabad, Tal. Dist. Jalgaon

*[Signature]*  
**Dr. T. A. Deshmukh**

Principal and Convener



Shellino Education Society's

**Arunamai College of Pharmacy,**  
Mamurabad, Jalgaon



## CERTIFICATE

This is certified that,

Prof./Dr./Mr./Mrs./Ms. Tayode Darshana Rajendra.

has participated as a Resource Person / Presenter / Volunteer / Delegate in the One Day Workshop on  
*"Practical Approach to Handling and Processing of Pharmaceutical Equipments"*

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At Jalgaon on Friday 29 March 2019

**Mr. T. R. Chaudhari**

In-charge (Quality Assurance)

Haffkine Ajintha Pharmaceutical Ltd., Jalgaon



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**Dr. T. A. Deshmukh**

Principal and Convener



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**Arunamai College of Pharmacy,**  
Mamurabad, Jalgaon



## CERTIFICATE

*This is certified that,*

Prof./Dr./Mr./Mrs./Ms. Patil Maheshwari Sanjay

has participated as a Resource Person / Presenter / Volunteer / Delegate in the One Day Workshop on  
*"Practical Approach to Handling and Processing of Pharmaceutical Equipments"*

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**Haffkine Ajintha Pharmaceutical Limited, Jalgaon**

*At Jalgaon on Friday 29 March 2019*

*Chaudhari*

**Mr. T. R. Chaudhari**

In-charge (Quality Assurance)

Haffkine Ajintha Pharmaceutical Ltd., Jalgaon



*[Signature]*  
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Mamurabad, Tal. Dist. Jalgaon

*[Signature]*

**Dr. T. A. Deshmukh**

Principal and Convener



Shellino Education Society's

## ARUNAMAI COLLEGE OF PHARMACY

• Gat No 285, Vidgaon Road, Mamurabad, Jalgaon, (MS) 425002

Approved by PCI, New Delhi & Affiliated to KBC North Maharashtra University, Jalgaon

• www.acopmamurabad.com | • jalpharmaedu@gmail.com | • 9403739090 | 9403710774

**Nanasaheb R. G. Patil**  
(President)

**Dr. T. A. Deshmukh**  
(Principal)

### Activity Report 2018-19

**Title of Activity/Event:** State Level Seminar on "Clinical Research Current Requirements and Scope for Pharmacy Professionals"

**Date:** 25<sup>th</sup> March 2019

**Time:** 10.00 am to 04.30 pm.

**Venue:** Shellino Education Society's

**Resource Person:** Dr. B. P. Salunke, Senior Executive, Out sourcing of BA/BE studies, Sun Pharmaceutical Industries Ltd. Mumbai

**In Charge of Activity:** Mr. Mayur A. Chaudhari.

**Objective of Activity:** To provide information and new ideas for clinical Research.

**No. of Participants:** 95

**Brief Description of Event:** On 25<sup>th</sup> March 2019, at Department of Pharmacology, SES Arunamai College of Pharmacy, Mamurabad, Jalgaon. Organised One Day State Level Seminar on "Clinical Research Current Requirements and Scope for Pharmacy Professionals" in this seminar eminent speaker Dr. B. P. Salunke, Senior Executive, Out sourcing of BA/BE studies, Sun Pharmaceutical Industries Ltd. Mumbai was invited. In this seminar near about 95 participants was registered. And all participants awarded with participation Certificate.



Shellino Education Society's

## ARUNAMAI COLLEGE OF PHARMACY

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**Nanasaheb R. G. Patil**  
(President)

**Dr. T. A. Deshmukh**  
(Principal)

**Outcome of Activity:** In this seminar he gives the detail knowledge about current aspect for development in clinical research. The importance, requirements, and work in the field of Clinical research along with future scope for newly students, shared by experts.



**PRINCIPAL**

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Arunamai College of Pharmacy  
Mamurabad, Tal. Dist. Jalgaon



## Invitation Letter



*Shellino Education Society's*  
**Arunamai College of Pharmacy**  
Mamurabad, Jalgaon – 425001, MS, India.



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*Shree Nanasahab R. G. Patil*  
President

*Dr. Tushar A. Deshmukh*  
Principal

Date: 05/03/2019

To,  
**Dr. Balwant P. Salunke.**  
**Sr. Executive,**  
(Grade 11 B)-BD-Outsourcing of  
BA/BE and Clinical Studies  
Sun Pharma Industries Ltd.  
Mumbai

**Subject:** Invitation as Speaker for Seminar on “Clinical Research Current requirement and Scope for Pharmacy Professionals”

Respected Sir,

It gives me an immense pleasure to invite you that, considering your vast experience and valuable contribution in clinical Research. You are cordially invited as Speaker at our college for Seminar. It is proposed to be held at SES Arunamai College of Pharmacy, Mamurabad, Jalgaon. You are kindly requested to give your time and date of your availability to make it convenient to visit our College. We hope to spend your valuable time with us from your busy schedule. Please reply for the same as early as possible.

Thanking You.

  
Yours Faithfully,

**Principal**  
**SES ACOP Mamurabad**



## Attendance Certificate of Resource Person



*Shellino Education Society's  
Arunamai College of Pharmacy*  
Mamurabad, Jalgaon - 425001, MS, India.



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Shree Nanasahab R. G. Patil  
President

Dr. Tushar A. Deshmukh  
Principal

Ref. No./ 847 /COP/2019

25<sup>th</sup> March 2019

### Attendance Certificate

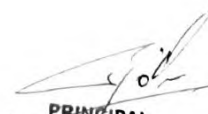
This is to certify that, Dr. Balwant Pratap Salunke, Senior executive (grad 11B)-BD-outsourcing of BA/BE and clinical studies at Sun Pharmaceutical Industries Ltd. Mumbai, has conducted One Day state level seminar on "Clinical Research: Current Requirement and Scope for Pharmacy Professionals" on dated 25/03/2019.

We are indeedly grateful to Dr. Balwant Pratap Salunke for giving gracious and valuable knowledge to our student.

Thank you

Received  
B.S.  
25/03/2019



  
PRINCIPAL  
Shellino Education Society's  
Arunamai College of Pharmacy  
Mamurabad, Tal. Dist. Jalgaon

## Certificate to Resource Person



# Participant Certificates

 **CERTIFICATE**  
Shellino Education Society's  
Arunamai College of Pharmacy,  
Mamurabad, Jalgaon  
Organised  
State Level Seminar on  
*"Clinical Research: Current Requirements  
and Scope for Pharmacy Professionals"*  
**Monday 25 March 2019**

This is to Certify that, Prof./Dr./Mr./Mrs. Kundan G. Ingale  
participated as a Delegate / Resource Person / Member of LOC in Seminar-  
"Clinical Research: Current Requirements and Scope for Pharmacy Professionals" on  
25 March 2019 at SES Arunamai College of Pharmacy, Mamurabad, Jalgaon.  
We duly acknowledge his / her active participation.

  
Mr. M. A. Chaudhari  
Co-ordinator

  
Dr. T. A. Deshmukh  
Principal and Convener



Glorious Tradition of Education...

 **CERTIFICATE**  
Shellino Education Society's  
Arunamai College of Pharmacy,  
Mamurabad, Jalgaon  
Organised  
State Level Seminar on  
*"Clinical Research: Current Requirements  
and Scope for Pharmacy Professionals"*  
**Monday 25 March 2019**

This is to Certify that, Prof./Dr./Mr./Mrs. Dinesh B. Potil  
participated as a Delegate / Resource Person / Member of LOC in Seminar-  
"Clinical Research: Current Requirements and Scope for Pharmacy Professionals" on  
25 March 2019 at SES Arunamai College of Pharmacy, Mamurabad, Jalgaon.  
We duly acknowledge his / her active participation.

  
Mr. M. A. Chaudhari  
Co-ordinator

  
Dr. T. A. Deshmukh  
Principal and Convener



Glorious Tradition of Education...

 **CERTIFICATE**  
Shellino Education Society's  
Arunamai College of Pharmacy,  
Mamurabad, Jalgaon  
Organised  
State Level Seminar on  
*"Clinical Research: Current Requirements  
and Scope for Pharmacy Professionals"*  
**Monday 25 March 2019**

This is to Certify that, Prof./Dr./Mr./Mrs. Ganujan S. Potil  
participated as a Delegate / Resource Person / Member of LOC in Seminar-  
"Clinical Research: Current Requirements and Scope for Pharmacy Professionals" on  
25 March 2019 at SES Arunamai College of Pharmacy, Mamurabad, Jalgaon.  
We duly acknowledge his / her active participation.

  
Mr. M. A. Chaudhari  
Co-ordinator

  
Dr. T. A. Deshmukh  
Principal and Convener



Glorious Tradition of Education...

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Shellino Education Society's  
Arunamai College of Pharmacy,  
Mamurabad, Jalgaon  
Organised  
State Level Seminar on  
*"Clinical Research: Current Requirements  
and Scope for Pharmacy Professionals"*  
**Monday 25 March 2019**

This is to Certify that, Prof./Dr./Mr./Mrs. Patel Aslam S.  
participated as a Delegate / Resource Person / Member of LOC in Seminar-  
"Clinical Research: Current Requirements and Scope for Pharmacy Professionals" on  
25 March 2019 at SES Arunamai College of Pharmacy, Mamurabad, Jalgaon.  
We duly acknowledge his / her active participation.

  
Mr. M. A. Chaudhari  
Co-ordinator

  
Dr. T. A. Deshmukh  
Principal and Convener



Glorious Tradition of Education...

# Brochure

**One Day State level Seminar**

**"Clinical Research: Current Requirements and Scope for Pharmacy Professionals"**

**REGISTRATION FORM**

**Delegates Details**

Name: \_\_\_\_\_

Course \_\_\_\_\_ Year \_\_\_\_\_

Institute Name With Address: \_\_\_\_\_

Contact No: \_\_\_\_\_

email: \_\_\_\_\_

Registration Category From: \_\_\_\_\_  
(Industry/Faculty/Research Scholar/Student.)

Payment Details: Cash-  Demand Draft-

Demand draft drawn in favour of Principal, SES Arunamai College of Pharmacy, Mamurabad payable at Jalgaon.

Along with Registration form, the demand draft must be send to the SES Arunamai College of Pharmacy, Gat no 285, Vidgaon Road, Mamurabad, Jalgaon Pin 425001.

Demand Draft No: \_\_\_\_\_ Date: \_\_\_\_\_

Signature \_\_\_\_\_ Date: \_\_\_\_\_

**Chief Patron**

**Hon. Nana Saheb R. G. Patil**  
(Secretary)  
Shellino Education Society

**Patron**

**Hon. Sau. Arunamai R. Patil**  
(President)  
**Hon. Mr. Nileshdada R. Patil**  
(Vice President)  
Shellino Education Society

**Convener**

**Dr. T. A. Deshmukh**  
(Principal)  
SES Arunamai College of Pharmacy, Mamurabad, Jalgaon

**Co-Ordinator**

**Prof. M. A. Chaudhari**  
Department of Pharmacology

**Organizing Committee**

Prof. Nilesh B. Chaudhari	Prof. Tushar D. Fegade
Prof. Samir N. Patil	Prof. Khushabu R. Patil
Prof. Gunjan S. Patil	Prof. Kalpesh V. Sonar
Prof. Neha A. Porwar	Prof. Pavan R. Badgujar
Prof. Nilesh I. Patil	Prof. Abrar Shaikh

**Prof. Girish S. Vispute**

**Road Map To ACOP**

**Department of Pharmacology**

Shellino Education Society's  
**Arunamai College of Pharmacy,**  
Mamurabad, Jalgaon.

Organized  
**One Day State level Seminar**  
ON

**"Clinical Research: Current Requirements and Scope for Pharmacy Professionals"**

**25 March 2019**

**VENUE**

Principal, Chaudhari Pratik  
**Arunamai College of Pharmacy, Mamurabad, Jalgaon**  
Gat No. 285, Vidgaon Road, Mamurabad  
Phone: 9421674933, 9421674934  
E-mail: hshchamurad@gmail.com  
http://www.shellinoeducation.com

**About Shellino Education Society**

Under the inspiration, Idealistic vision of honorable Nana Saheb R. G. Patil, SES had its humble beginning in 2005, with inspirational motto Glorious Tradition of Education with grate successor honorable Sau. Arunamai R. Patil took forward the society and give justice to the motto of society. It is further nurtured by honorable Mr. Nilesh R. Patil Who in the tune with time has expanded the scope by establishing professional hub.

**About College**

SES's Arunamai College of Pharmacy (Degree) established in 2005 is affiliated to the North Maharashtra University Jalgaon, AICTE and PCI. College is situated in healthy environment of Mamurabad, Jalgaon. Our commitments and goal to the profession of Pharmacy are to train Health care professionals to support our national goal of Health For All and become an active players in contributing to discovery of innovative solution to the human misery and to promote health. The campus is self sufficient for production of better quality students as per market demands.

**About Seminar**

Clinical Research is one of the most knowledge-intensive industry. It is complete biography of drug from its inception in the lab to its introduction to the consumer market and beyond. Any molecule is identified is subjected to pre-clinical and clinical trials before entering in to market. Though post marketing

Pre-clinical studies is associated with effect of drug on animals. All the toxicological studies, tests for teratogenicity, carcinogenicity are carried out.

After this, the data obtained from the studies are submitted as an IND (Investigational Drug Application) to take permission for human studies. Then, it is enter in to clinical trials. There are 4 phases in it.

It is very clear that India has become a very preferred destination for clinical research. It

**Who Can Participate**

Delegates from academics, industry, student research scholars from recognized universities are welcome to attend the seminar.

**About Registration**

Those desiring to attend seminar should fill the registration form and send along with cash or DD in favour of Principal, SES ACOP, Mamurabad and payable at Jalgaon.



**Registration Fee**

For students/Research Scholars= Rs.100  
For Academician/ Person from Industry=Rs.200

**Registration Committee**

Asst. Prof. K. V. Sonar Mobile: 9860321707  
Prof. G. V. Vispute Mobile: 9421674933

**Resource Person**

**Dr. Balwant Salunke**  
Senior Executive  
(Grade 11B)-RO-Outsourcing of RA/BE and Clinical Studies  
Sun Pharmaceutical Industries Ltd. Mumbai

**Dr. Amol Pachpute**  
Manager Regulatory Affairs  
Bharat Serums & Vaccines Ltd. Airoli Navi Mumbai

**Seminar Schedule**

Time	Activity
10.00am to 11.00am	Registration & Breakfast
11.00am to 11.30am	Inaugural Function
11.30am to 01.00pm	Planetary Session-I
01.00pm to 02.00pm	Lunch Break
02.00pm to 03.30pm	Planetary Session-II
03.30pm to 04.00pm	High Tea
04.00pm to 04.30pm	Valedictory Function



# Attendance for Programme

One Day State Level Seminar  
Clinical Research: Current Requirements and Scope for Pharmacy Professionals

Date:- 25/3/19

## Attendance Report

Sr. No.	Name Of Student	Signature
1.	BARI JAYESH VASANT	
2.	BHOI DIPALI MADHUKAR	
3.	BHOLE MADHURI ANIL	
4.	CHAUDHARI KAMLESH NARAYAN	
5.	CHAVAN SHUBHAM PRADIP	
6.	CHAVHAN ARCHANA BHAGVAN	
7.	DESHMUKH MD ALTAF MD JAHANGIR	
8.	DHAKE SNEHAL DINKAR	
9.	JAIHWAL SHUBHAM VINOD	
10.	KOLEKAR MAHESH DATTU	
11.	KOLHE HARSHAL SANTOSH	
12.	KOLI ROHINI SANJAY	
13.	KOLI UMESH RAGHUNATH	
14.	LAWANE LOKESH ARJUN	
15.	MAHAJAN PANDURANG RAJU	
16.	MAHAJAN SACHIN VALMIK	
17.	MAHALE VAIBHAV SANTOSH	
18.	MANORE SANDESH GULABRAO	
19.	MISHRA CHANDAN SHAMLAL	
20.	NIMBALKAR PRACHI SHAMKANT	
21.	PALVE ARJUN BABASAHEB	
22.	PATEL ASLAM SALIM	
23.	PATHAN SAFTIN RAJAKHAN SAIDKHAN	
24.	PATIL AKASH SUDHAKAR	
25.	PATIL AKSHAY DNYANESHWAR	
26.	PATIL AMOL RAVINDRA	
27.	PATIL BHUSHAN BHAGWAN	
28.	PATIL CHANDRAKANT ASHOK	
29.	PATIL DHARMRAJ SITARAM	
30.	PATIL DIKSHITA ARJUN	
31.	PATIL DIPALI RAJENDRA	
32.	PATIL DIPALI TARACHAND	
33.	PATIL DNYANESHWAR SAKHARAM	



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Mamurabad, Tal. Dist. Jaigaon

One Day State Level Seminar  
Clinical Research: Current Requirements and Scope for Pharmacy Professionals

Date:- 25/3/2019

Attendance Report

34.	PATIL HARSHALA BALU	<i>Patil</i>
35.	PATIL MAHESHWARI SANJAY	<i>Patil</i>
36.	PATIL MAYUR BHAUSAHEB	<i>Patil</i>
37.	PATIL PRATIKSHA JITENDRA	<i>Patil</i>
38.	PATIL ROHIT ANIL	<i>Patil</i>
39.	PATIL ROHIT RAMESH	<i>Patil</i>
40.	PATIL RUPALI SHIVLAL	<i>Patil</i>
41.	PATIL SACHIN DNYANESHWAR	<i>Patil</i>
42.	PATIL SHUBHAM PRABHAKAR	<i>Patil</i>
43.	PATIL SUWARNA BHAGWAT	<i>Patil</i>
44.	PATIL SWAPNIL ARUN	<i>Patil</i>
45.	PAWAR HARSHAL SHAILESH	<i>Kumar</i>
46.	RAJGURE RAVINDRA SURESH	<i>Patil</i>
47.	RATHOD BHUSHAN CHARANDAS	<i>Patil</i>
48.	RATHOD PRUTHVIRAJ BHAGINATH	<i>Patil</i>
49.	SANAP GANESH MADHUKAR	<i>Patil</i>
50.	SHAIKH IMRAN SHAIKH SHABBIR	<i>Patil</i>
51.	SHAIKH JAVED SK PYARESAHEB	<i>Patil</i>
52.	SHINDE ANIL VITTHAL	<i>Patil</i>
53.	SHIRODE PRAJAKTA SUNIL	<i>Patil</i>
54.	SONAR PRATIK ANIL	<i>Patil</i>
55.	TAYADE DARSHANA RAJENDRA	<i>Patil</i>
56.	Third Year	<i>Patil</i>
57. ①	Ashwini Vijay Kumar	<i>Kumar</i>
58. ②	Bhagyashri Sahebrao Dente	<i>Patil</i>
59. ③	Ashwini Sudhakar Borase	<i>Patil</i>
60. ④	Kalyani Ramesh Kumar	<i>Patil</i>
61. ⑤	Angika Prashant Patil	<i>Patil</i>
62. ⑥	Suzade Ashwini Anil	<i>Patil</i>
63. ⑦	Ashwini Pandharinath Patil	<i>Patil</i>
64. ⑧	Patil Ashwini Panditram.	<i>Patil</i>
65. ⑨	Shelke Akshata Vaibhav.	<i>Patil</i>

⑩ Joshi Karuna Prakash.

⑪ Patil Namabhai Ramsing

*Patil*

*Patil*



P.T.O.

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Shri. Education Society's  
Arunamai College of Pharmacy  
Mamurabad, Tal. Dist. Jalgaon

## Third Year

Name

- ① Tiwari. Parus. Sanjay.
- ② Deepeshkumar Ramesh Thakare.
- ③ Shaikh. Mushahid Arif
- ④ Patel. Mansul. Ariz
- ⑤ Rode. Aakanksha. Prakash
- ⑥ Thorat. Fejaswini. Anil
- ⑦ Chaudhari. Jayshree. Pramod
- ⑧ Jadhav. Kanchan. Dharasing
- ⑨ Patil. Pragati. Manik
- ⑩ Shinde. Dipti. Gautam
- ⑪ Ladvanjari. Tulhar. Bhanudas.
- ⑫ Pathan. Tawif. Naeem. Khan
- ⑬ Gavande. Kalyanee. Vijay

Sign

Parus

Thakare.

Mushahid

Ariz.

Rode

Thorat

Ch.

Dharasing

Manik.

Dshinde.

Gautam.

Khan

Gavande



Principal  
PRINCIPAL  
Shellino Education Society's  
Arunamai College of Pharmacy  
Mamurabad, Tal. Dist. Jalgaon

*[Handwritten scribbles and signatures]*



One Day State Level Seminar

Clinical Research: Current Requirements and Scope for Pharmacy Professionals

Date: 25/3/2019

Attendance Report

Sr.No.	Name of Students	Signature
1	Kamrunnisa Prakash Patil	Hemraj
2	Dipesh N. Sonawane	D.N. Sonawane
3	Rajwardhan N. Kuwar	R.N. Kuwar
4	Yoti Vinod Patil	V.V.P
5)	Tejal Ganesh shimpi	T.G. Shimpi
6)	Shyam Tukaram mali	Shyam
7)	dinesh B. Patil	D.B. Patil
8)	Ajinkya Sanjay Patil	Ajinkya S.
9)	Swaphil D. Patil	Swaphil
10)	Dr. K.D. Patil	K.D. Patil
11)	Tushar P. Patil	Tushar
12)	AbRAR KHAN AKhtar KHAN	AbRAR
13)	Shekhar j Dhande	Shekhar
14)	kishor Haridas Thyle	Kishor
15)	Rajeshri Ja. Mahajan.	Rajeshri
16)	Ashwini Anant gayakwad	Ashwini
17)	kundan G. Jagale	Kundan



*(Handwritten Signature)*  
Activity incharge

*(Handwritten Signature)*  
**PRINCIPAL**  
Shehino Education Society's  
Arunamai College of Pharmacy  
Mumrabad, Tal. Dist. Jalgaon

## Notice



Shellino Education Society's  
*Arunamai College of Pharmacy*

Mamurabad, Jalgaon - 425001, MS, India



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Email:- jalpharmaedu@gmail.com

15/03/2019

## NOTICE

All the Students, Teaching and Non-Teaching staff here informs that, one day State Level Seminar on "Clinical Research Current Requirements and Scope for Pharmacy Professionals" should be conduct on **25<sup>th</sup> March 2019** at 10.00am.

**Venue:** SES Arunamai College of Pharmacy, Mamurabad, Jalgaon.



A handwritten signature in blue ink, appearing to be the name of the Principal.

**PRINCIPAL**  
Shellino Education Society's  
Arunamai College of Pharmacy  
Mamurabad, Tal. Dist. Jalgaon