



Certificate Course : Hands on Training Program on HPLC, UPLC and LC-MS MET IOP in Collaboration with Nutralytica Research

Institute of Pharmacy is affiliated to Savitribai Phule Pune University and approved by Pharmacy Council of India (PCI), All India Council for Technical Education (AICTE) and Directorate of Technical Education (DTE). Started way back in 2006, the Institute is running the undergraduate course and three post graduate courses.

Nutralytica Research Pvt. Ltd. is committed to provide accurate and reliable analytical data and relevant technical support to its customers. By adopting Good Laboratory Practices (GLP), Good Professional Practices (GPP) and demonstrating compliance to applicable regulations to ensure the reliable testing.

Analytical Chemistry plays an important role in Pharmaceutical, Chemical and Food industries. The key responsibilities of analytical chemist includes but not limited to, analysis of samples from various sources to provide information on compounds with the use of different analytical techniques and instruments, such as HPLC, GC, IR, etc, interpreting data and meeting strict guidelines on documentation when recording data, developing analytical methods for analysis of drug products and chemicals and validating methods and equipment.

Having hands on important analytical instruments wide opportunity are available in analytical methods development and validation, chemical and forensic analysis, process development, product validation, quality control, R & D, etc.

In the view of this recent trend MET's Institute of Pharmacy, Bhujbal Knowledge City jointly conducting 7 days Hands-on training program in collaboration with Nutralytica Research Pvt. Ltd.

Features of Program:

- Training by expert faculty
- Along with practical training, theory sessions will also be conducted. Training on instruments will be given at Nutralytica Research Pvt Ltd, Lakhmapur and theory sessions will be conducted at MET's Institute of Pharmacy, Nashik.
- One batch consist only 20 students. Each batch consists of 4 groups with 5 students for practical training.
- Program conducted only on Saturday and Sunday without hampering academic/work schedule.
- Each student will get opportunity to handle the instrument during training.
- Bus facility to and fro to the students will be provided from Nimani Bus stand to Nutralytica Research Pvt Ltd., Lakhmapur.
- Schedule will be fixed after the registration of candidate.
- At the end of program certificate will be given to all successful students.

Program 1

Sr.No	Name of Instrument	Practical	Fees for per students
1	LC-MS	Practical examples with 3 pharmaceutical grade ingredients with their separation and characterization by mass spectra.	3300/-*
2	UPLC	Practical Application with 3 pharmaceutical grade ingredients. In detail demonstration of software.	

Program 2

Sr.No	Name of Instrument	Practical	Fees for per students
1	HPLC-PDA	Practical applications with 3 pharmaceutical ingredients Software: special emphasis on peak purity analysis.	1200/-*
2	HPLC-RI	Practical applications with 3 pharmaceutical ingredients	

- **Program 1 + Program 2 = Rs. 4000/- & *15 % service tax extra**
- **Registrations are open throughout the Year.**
- **First batch will commence from second week of August 2016**

For registration and other enquires

Prof. S. D. Patil (8007827080) email : sushilpharma@rediffmail.com

Dr. S. S. Chhajed (98500 81911) email : chhajedss@gmail.com

Dr. Sanjay J. Kshirsagar
Principal
MET's Institute of Pharmacy
Bhujbal Knowledge City, Adgaon,
Nashik 422 003



THE MET LEAGUE OF COLLEGES
MET
AS SHARP AS YOU CAN GET

Bhujbal Knowledge City

Adgaon, Nashik - 422003



Nutralytica Research
ANALYZING DATA, DELIVERING SOLUTIONS

Certificate

MET's Institute of Pharmacy, Bhujbal Knowledge City, Nashik, certify that

has successfully completed certificate course in Hands on training program on

HPLC, UPLC and LC-MS in collaboration with Nutralytica Research Private Limited, Dindori

in February 2017

Dr. Sanjay J. Kshirsagar
Principal
MET's Institute of Pharmacy

Mr. Aditya Kelkar
Director,
Nutralytica Research Private Limited, Dindori

BHUJBAL KNOWLEDGE CITY
MET Institute of Pharmacy, Adgaon Nashik- 422003

Report

Certificate course on HPLC, UPLC & LC MS

Certificate course: Hands-on Training Program on HPLC, UPLC & LC MS by MET Institute of Pharmacy In collaboration with Nutralytica Research was inaugurated on **08/09/2016** at MET IOP. Present gathering was addressed by Dr. Sanjay J. Kshirsagar, Principal MET IOP, Mr. Aditya Kelkar Director of Nutralytica Research & Dr. Ajay Srinivasn and

Mr Swapnil Chinchole.

Program 1:

Sr.No	Name of Instrument	Practical	Fess for per students
1	LC-MS	Practical examples with few pharmaceutical grade samples 3 pharmaceutical grade ingredients with their separation and characterization by mass spectra.	3300/-*
2	UPLC	Practical Application with 3 pharmaceutical grade ingredients. In detail demonstration of software.	

Program: 2

Sr.No	Name of Instrument	Practical	Fess for per students
1	HPLC-PDA	Practical applications with 3 pharmaceutical ingredients Software: special emphasis on peak purity analysis.	1200/-*



2	HPLC-RI	Practical applications with 3 pharmaceutical ingredients	
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Program 3:

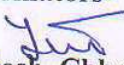
Program 1 + Program 2 = Rs. 4000/- *

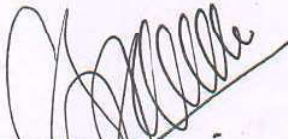
*** 15 % service tax extra**


In this programme total 18 students were participated out of these 10 students from M.Pharm & 08 students from B.Pharm. **Theory Sessions conducted at MET IOP** taken by Dr Sandeep S. Sonawane on topic Dr Santosh Chhajed and Dr Sandeep S. Sonawane on topic LCMS.

Practical training Sessions at Nutralytica Research Pvt Ltd training given by Mr.Jayant Kulkarni,Mr.Sachin,Mr.Govind. Program conducted only on Saturday and Sunday without hampering academic/work schedule. At the end of program certificate given to all successful students by Dr. Sanjay J. Kshirsagar, Principal MET Institute of pharmacy &Mr. Aditya Kelkar Director of Nutralytica Research. Overall programme co-ordinate by Prof.Sushil Patil & Dr. Santosh Chhajed. Programme successfully conducted under the guidance of Hon. Respected Shefali Bhujbal, Dr. Sanjay J. Kshirsagar, Principal MET Institute of pharmacy &Mr. Aditya Kelkar Director of Nutralytica Research.

Co-coordinators-


Dr. Santosh Chhajed


PRINCIPAL
MET's Institute of Pharmacy
Adgaon, Nashik-3.


Prof. Sushil Patil





CERTIFICATE COURSE HANDS ON TRAINING ON PHARMACEUTICAL EQUIPMENTS By

INSTITUTE OF PHARMACY
MET Bhujbal Knowledge City



anish

**Anish Pharma Equip.
Pvt. Ltd., Nashik**

MET's Institute of Pharmacy is affiliated to Savitribai Phule Pune University and approved by Pharmacy Council of India, All India Council for Technical Education and Directorate of Technical Education started way back in 2006. Institute has excellent state of art infrastructure and strong association with Industries.

Courses Offered by the Institute are :

- B. Pharm
- M. Pharm (QAT, Pharmaceutics, Pharm' Chemistry)
- Ph. D (Pharmaceutics)

Anish Pharma Equip. Pvt. Ltd. introduces itself as a company engaged in the Manufacture, Export and Supply of efficient Pharmaceutical Machinery and Equipment. The company is been in this business for over a 2 & ½ decades in the national as well as international markets.

Equipment offered: Seamless process transfer facility, Fluid Bed Processors – Top spray granulator, Bottom Spray granulator (APCG-COMBO), Rapid Mixer granulator, Top & Bottom coater granulator, Particle coater granulator (pelletization) Extruder, Spheroniser, Ointment manufacturing systems (top & bottom entries) etc

Objectives: To provide hands on training to students on Pharma equipments and machineries, this is important part of Pharmaceutical manufacturing as well as Formulation Research and Development.

Key Features:

- Certificate Course in Collaboration with Industry
- Training by Industrial Experts
- Free Bus Facility
- Hands on Training Covering Pharma Equipments
- Scholarship

Equipments to be covered:

Spray Dryer

Miniquest Tablet Coater

**Fluid Bed Processors and
Ointment Machines**

**Spheronizer and
Extruder**



Facilities at Anish Pharma Equip. Pvt. Ltd.: Seamless process transfer facility, Fluid Bed Processors - Top spray granulator, Bottom spray granulator (APCG COMBO Pilot scale module), Top and bottom coater granulator (ATSG COMBO), Rapid Mixer Granulator, Particle coater granulator (pelletization), Extruder, Spheroniser, Ointment manufacturing systems (Top and Bottom Entries) etc

Course Structure:

- Total tenure of course will be two days
- Participating students should be from B. Pharm, and M. Pharm
- Day 1 will be covered by MET's Institute of Pharmacy and day 2 will be covered by Anish Pharma Equip. PVT. LTD
- On the 1st day, for inauguration will be at MET's Institute of Pharmacy along with half day training session covering theory as well as practical sessions for spray dryer and Miniquest Tablet Coating Machine
- Single pager flyer with Anish equipment details and introduction will be distributed during in-auguration to students at MET's Institute of Pharmacy
- On day 2nd full day training session will be conducted at Anish Pharma Equip. PVT. LTD. covering theory as well practical sessions for Fluid Bed Processor, Spheronizer and Extruder, etc
- Hands-on training course will end with written examination.
- Admissions to the training program will be on the basis of scheduled selection procedure.
- Certificates will be provided after successful completion of training course

Fee Structure:

- Two thousand Rupees (2000/-) per student.
- Successful completion of training, discipline and sincerity during the training sessions will be awarded with scholarship of Rs 1000/-

(For all participants) **contact:- Dr. D.S. Bhambere. +91-9764222761. deepakbhambere128@gmail.com**

Last Date of Registration for First Batch is 20th Feb, 2017

Entries are Limited to 20 Students on the basis of First Come First Register.

THE MET WAY OF LEARNING

MET Bhujbal Knowledge City

AS SHARP AS YOU CAN GET



anish pharma equip pvt. ltd.

PelletizationLine

Equipments

a) Rapid Mixer Granulator



b) Extruder



Pelletization Process

Wet Massing in RMG (Dough Preparation)



Extrusion to form Extrudates

D) APCG 175 (Fluid Bed Coater/Dryer)



C) Spheronizer



Drying of Pellets in Fluid Bed Dryer (FBD)

Spheronization of Extrudates to form pellets

PELLETIZATION TECHNOLOGY



EXTRUSION & SPHERONIZATION

- Agglomeration through Extrusion and Spheronization is one of the oldest techniques for manufacturing pellets.
- In the pharmaceutical industry, pellets of medium particle sizes from 600 to 2,000 micrometers are used for most applications.
- Distinct advantages- a) Ease of capsule filling b) Enhancement of drug dissolution c) Ease of coating (sustained, controlled, or site-specific delivery of the drug from coated pellets) d) Uniform packing e) Even distribution in the GI tract and less GI irritation.

PELLETIZATION PROCESS:


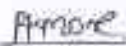





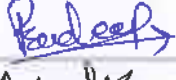
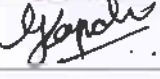


- **Dry Mixing:** Dry mixing of ingredients is done to achieve homogeneous powder dispersion.
- **Wet Massing:** Wet massing is done to produce a sufficient plastic mass for extrusion, by employing normal equipment (RMG) and processes.
- **Extrusion:** This is the third step in the process, Screw feed extruder (axial, dome and radial) is used to produce rod shaped cylindrical particles of uniform diameter from the wet mass (Extrudates).
- **Spheronization:** Breaking and rounding the extrudates to round pellets through Spheronization, a rotating friction plate where the extrudates is broken up into smaller diameter spherical shape Pellets & transition from rods to spheres.
- **Drying:** A drying stage is required in order to achieve the desired moisture content. In a Fluidized Bed Drier 30 to 35°C elevated temperature.
- **Screening:** Screening may be necessary to achieve the desired size distribution, and for this purpose sieves are used.

**CERTIFICATE COURSE
HANDS ON TRAINING ON
PHARMACEUTICAL EQUIPMENTS**

Attendance of Students Participating in Program

Date: 02nd April 2017

Sr. No.	Name of Students	Signature
1	Ms. Gangurde Trupti	
2	Mr. Malsane Pradeep	Absent.
3	Ms. More Rutuja	
4	Mr. Rahane Amol	
5	Mr. Bhise Subhash Akash	
6	Mr. Bhagdane Atul	
7	Mr. Khedekar Yogesh	
8	Mr. Bade Pratik Bade	
9	Mr. Sonavane Sumit	Absent.
10	Mr. Ahire Pradeep	
11	Ms. Kapadne Chetna	
12	Ms. Khade Yogita	



Dr. D. S. Bhambere



Dr. G. S. Deokar

To,

Date: 3/04/2017

Mr. Ravi Samant

Owner and Director;

Anish Pharma Equip. Pvt. Ltd

Nashik, Maharashtra - 422 010, India

Dear Mr. Ravi Samant

Our Sincere thanks to you for an important initiative taken to conduct the collaborative hands on training course for students on Pharma equipment and machineries which is the important part of Pharmaceutical manufacturing as well as Formulation, Research and Development in Pharmaceutical Industry.

This course indeed has increased our students desire to understand the field more thoroughly. The activity would definitely turn out to be helpful for overall skill development of the students.

We greatly appreciate your generosity and interest for the student training. I on behalf of MET's Institute of Pharmacy appreciate the sincere efforts taken by the Team Anish for the successful conduct of the training activity.

Thanking You


Dr. Sanjay J. Kshirsagar**PRINCIPAL**MET's Institute of Pharmacy
Adgaon, Nashik-3.

Certificate Course

Hands on training on Pharmaceutical Equipments

By

MET's Institute of Pharmacy, Bhujbal Knowledge City, and,

Anish Pharma Equipment Pvt Ltd, Nashik



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Equipments Offered: Seamless process transfer facility, Fluid Bed Processors - Top spray granulator, Bottom spray granulator (APCG COMBO), Top and bottom coater granulator (ATSG COMBO), Rapid Mixer Granulator, Particle coater granulator (pelletization), Extruder, Spheroniser, Ointment manufacturing systems (Top and Bottom Entries) etc

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Key Features:

- **Certificate Course in Collaboration with Industry**
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- **Scholarship**
- **Free Bus Facility**


PRINCIPAL
MET's Institute of Pharmacy
Adgaon, Nashik-3.



Draft finalized on
17/1/2017


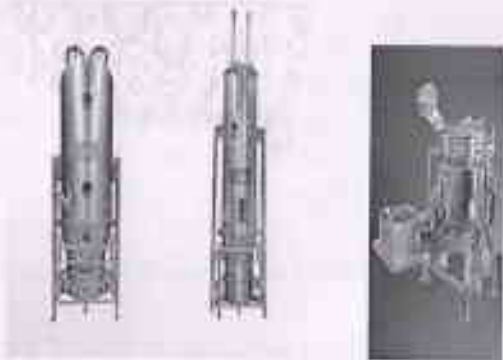


Certificate Course

Hands on training on Pharmaceutical Equipments

By

MET's Institute of Pharmacy, Bhujbal Knowledge City, and,
Anish Pharma Equipment Pvt Ltd, Nashik

Equipments to be covered:

MET's Institute of Pharmacy	Anish Pharma Equipments PVT LTD
Spray Dryer 	Fluid Bed Processors, and Ointment Machines 
Miniquest Tablet Coater 	Spheronizer and Extruder 

Facilities: Seamless process transfer facility, Fluid Bed Processors - Top spray granulator, Bottom spray granulator (APCG COMBO Pilot scale module), Top and bottom coater granulator (ATSG COMBO), Rapid Mixer Granulator, Particle coater granulator (pelletization), Extruder, Spheroniser, Ointment manufacturing systems (Top and Bottom Entries) etc

Signature
Name of the person
Date



Certificate Course

Hands on training on Pharmaceutical Equipments

By

MET's Institute of Pharmacy, Bhujbal Knowledge City, and,

Anish Pharma Equipment Pvt Ltd, Nashik

Policy

1. Total number of batches per year taken would be Five (5): February- March and July -August
2. Fee distribution

<u>Amount Gain Per Batch</u>	<u>Total Amount per year</u>
Batch of 20 students 2000 Rs/students =2000*20 =40000/-	40000* 5 Batches= 2,00,000/- per year

With 60% share of Anish Pharma Equipments PVT LTD and 40 % share of MET's Institute of Pharmacy

Per Batch Calculations

Sr.No	Anish Pharma Equipments PVT LTD	MET's Institute of Pharmacy
1. 60:40	24,000/-	16,000/-
2.	20,000/- refund to students after successful completion	4,000/- Material Cost , advertisement and Bus facility
		10,000/- Management
		6,000/- Brochure Design and advertisement Material cost, etc.
		• Rs 5000/- will be paid to coordinator per year



Certificate Course

Hands on training on Pharmaceutical Equipments

By

MET's Institute of Pharmacy, Bhujbal Knowledge City, and,

Anish Pharma Equipment Pvt Ltd, Nashik

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- Certificates will be provided after successful completion of training course

Fee Structure:

- Two thousand Rupees (2000/-) per student.
- Successful completion of training, discipline and sincerity during the training sessions will be awarded with scholarship of Rs 1000/- (For all participants)
- Hostel Accommodation if required would charge 300 Rs per day including food.



**CERTIFICATE COURSE
HANDS ON TRAINING ON
PHARMACEUTICAL EQUIPMENTS**

Distribution of Scholarship by Anish Pharma Equip. Pvt. Ltd., Nashik

Date: 03rd April 2017

Sr. No.	Name of Students	Scholarship received from Anish Pharma Equip. Pvt. Ltd., Nashik	Signature
1	Ms. Gangurde Trupti	1000/-	
2	Mr. Malsane Pradeep	—NA—	Absent.
3	Ms. More Rutuja	1000/-	
4	Mr. Rahane Amol	1000/-	
5	Mr. Bhise Sushash Akash	1000/-	
6	Mr. Bhagdane Atul	1000/-	
7	Mr. Khedekar Yogesh	1000/-	
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11	Ms. Kapadne Chetna	1000/-	
12	Ms. Khade Yogita	1000/-	

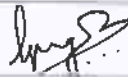


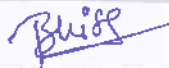





Dr. D. S. Bhmbere

Dr. G. S. Deokar

**CERTIFICATE COURSE
 HANDS ON TRAINING ON
 PHARMACEUTICAL EQUIPMENTS**

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11	Ms. Kapadne Chetna	
12	Ms. Khade Yogita	



Dr. D. S. Bhambere



Dr. G. S. Deokar



anish pharma equip pvt.ltd.

Works : G – 68 M.I.D C., Ambad ,
Nashik, Maharashtra, India –422010

Tel- 00-91-253-2381831

Fax – 00-91-253-2380903.

E – mail : marketing@anishpharma.com

To
Principal,
College of Pharmacy

Subject: - Invitation to HOD (Pharmaceutics) & students of your college for Sponsored In-house Training programme at our Nashik facility.

Dear Sir /Madam,

It gives us a great pleasure to take this opportunity to inform you that our organization has come up with the idea to organize one day fully sponsored training program for selected students of last year & post-graduation in pharmacy branch of your reputed college. We are pleased to introduce ourselves as one of the leading manufacturers of Pharma equipment's, specialized in both Wet & Dry Granulation, Pelletization and Coating by using most modern technology developed in-house by our qualified and experienced pharmacists.

One day Training program will include-

- 1) Introduction of our organization.
- 2) Introducing students to our in-house R & D seamless process trial facility.
- 3) To brief students for selecting the Machine for particular process in our in-house R&D lab.
- 4) Briefing about setting right parameters for particular process in Pharma.
- 5) Selection & setting of process conditions such as temperature, Dew point, air pressure, CFM of pharma equipment's and automation in setting parameters.
- 6) Actual live process demonstration (batch) on machine by our expert.
- 7) Cleaning the machines after use.
- 8) Guest lecture by an experienced pharma expert.
- 9) The program will conclude by awarding certificates to each student which will help them in future for placement in Pharma Organization.
- 10) A group photograph with our team.

****Note:** For Each student morning breakfast, lunch and evening refreshment will be provided by us.

Yours Faithfully,
For anish pharma equip pvt. ltd.

RAVI SAMANT
(DIRECTOR)

an ISO-9001-2008 company



anish pharma equip pvt. ltd.

Works : G-68 M.I.D.C., Ambad, Nashik, Maharashtra, India-422010

Tel. No. : +91 253 2381831, Fax No. : +91 253 2380903

E-mail : Info@anishpharma.com; apepl_nsk@sanchanet.in

Web site : www.anishpharma.com

CIN : U29290MH1990PTC057521

To,
The Principal
MET, Bhujbal Knowledge City
Nashik

Subject: Letter of Appreciation

Dear Sir,

On behalf of anish pharma equip. pvt ltd., we wish to appreciate your sincere efforts for your cooperation for the "Hands on training" at our company premises.

We highly appreciate your cooperation and valuable time during the training session.

Looking forward for the same cooperation and assistance in future.

With warm regards,
Sincerely,

For anish pharma equip pvt. ltd.

anish pharma equip. pvt. Ltd

Ravindra Samant
Ravindra Samant Director

Director



APCG-300 COMBO Pilot Scale Module

IDEAL for Pilot Scale to Scale Ups

– Perfect solution between R&D & Scale ups with OPTIMUM FLEXIBILITY

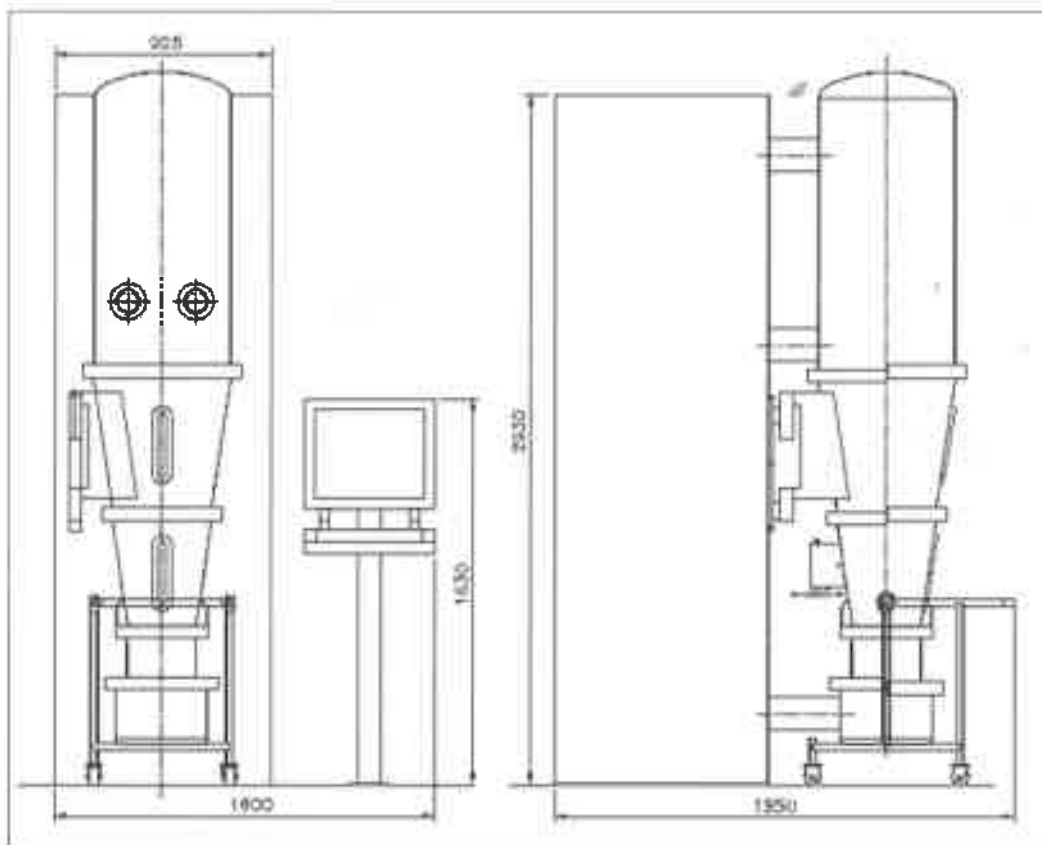


HIGHLIGHTS

1. SIMPLE TO HANDLE!
2. Batch Volume -2 Kg to 24 Kg
3. APCG - Wurster - Pellet Coating / Particle Coating
4. Granulation Insert
5. Drying Operation with Granulation Insert
6. HVLP - Nozzles available
7. Completely Pre-Installed & Tested Module
8. Operating Control - Touch screen Monitor Dust Proof /Atex Proof
9. **UTMOST CARE** for EHS - Environment / Health / Safety
10. Best Suitable for Total Containment Applications
11. Problem Free Cleaning
12. All Inbuilt utilities
13. Explosion vents vertical or horizontal both options are available

APCG-300 COMBO

Pilot Scale Module



APCG-300 COMBO - TECHNICAL DETAILS

Volume of product chamber	40 lit.
Bottom Spray - Pellet / Particle Coating	32 lit.
Top Spray - Granulation	40 lit.
Electrical Power for blower in HP	15
Inlet Air volume in CFM	800
Air Heater electrical in kW	12
Compressed Air for coating in CFM	9 at 2 to 4 bar pressure
Machine Dimensions in Meters.	1.6W x 1.95D x 3H
Machine weight in Kg.	1500 kg.

anish pharma equip pvt. ltd.

Address : G-68, M.I.D.C., Ambad, Nashik - 422 010, Maharashtra, India
 Telephone : +912532381831, 238 0337
 Fax : +912532380903
 Email : info@anishpharma.com
 Web : www.anishpharma.com



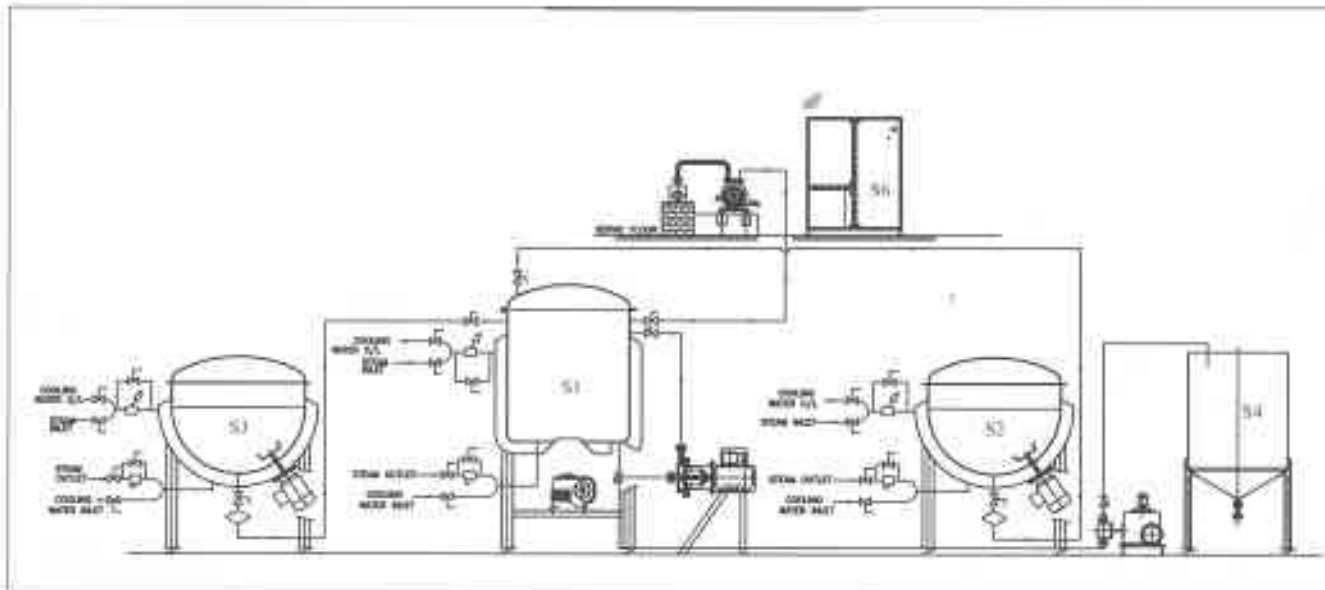


Basic Operations

All waxes and oils are dissolved in the Oil Phase Vessel (OPV) separately. All aqueous phase materials are added in the Water Phase Vessel (WPV) and processed separately. Both phase vessels are jacketed and are provided with motor driven propeller type of agitators which facilitate thorough mixing. Both phases are transferred to the main Ointment Manufacturing Vessel (OMV) (see schematic drawing). The Ointment Manufacturing Vessel is provided with anchor type of agitator along with Teflon scrappers at the end. The agitator is driven by gearbox motor controlled through variable frequency drive. An INLINE Highspeed emulsifier with recirculation ensures proper emulsification of the ointment. The finished product is transferred to storage vessels by means of the bump/metering pump. Transfer from storage vessel to the filling hoppers is achieved by means of metering pump of the required rate. Special scrappers are provided for transfer of the complete product and to avoid wastage. The system is very useful for ointment/creams, lotions, gels, shampoos, tooth pastes and such other preparations.

Anish Ointment Manufacturing Plant-BE Model

Anish Ointment Manufacturing Plant - BE Model



AOMP Model Detail	10	25	50	100	250	500	750	1000	1500
Capacity of OMP in Liters Bottom Entry	10	25	50	100	250	500	750	1000	1500

Advantages:

- Robust & Compact Construction
- User - friendly & flexible Process parameter settings
- Variable shear force adjustment
- Easy upgradations with latest trends
- Bottom entry drive with modular construction
- Easy cleanability
- Easy to assemble & dismantle
- Jacketed vessels with heating/cooling facilitating absolute temperature control
- Follows SHE policy
- PLC based touch screen HMI with SCADA software
- "W" shaped anchor with stationary baffles that result in SEMICONTRA motion facilitating manufacturing of critical products.

anish pharma equip pvt. ltd.

Works : G-68, M.I.D.C., Ambad, Nashik, Maharashtra 422010 INDIA
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 Email : info@anishpharma.com
 Web : www.anishpharma.com





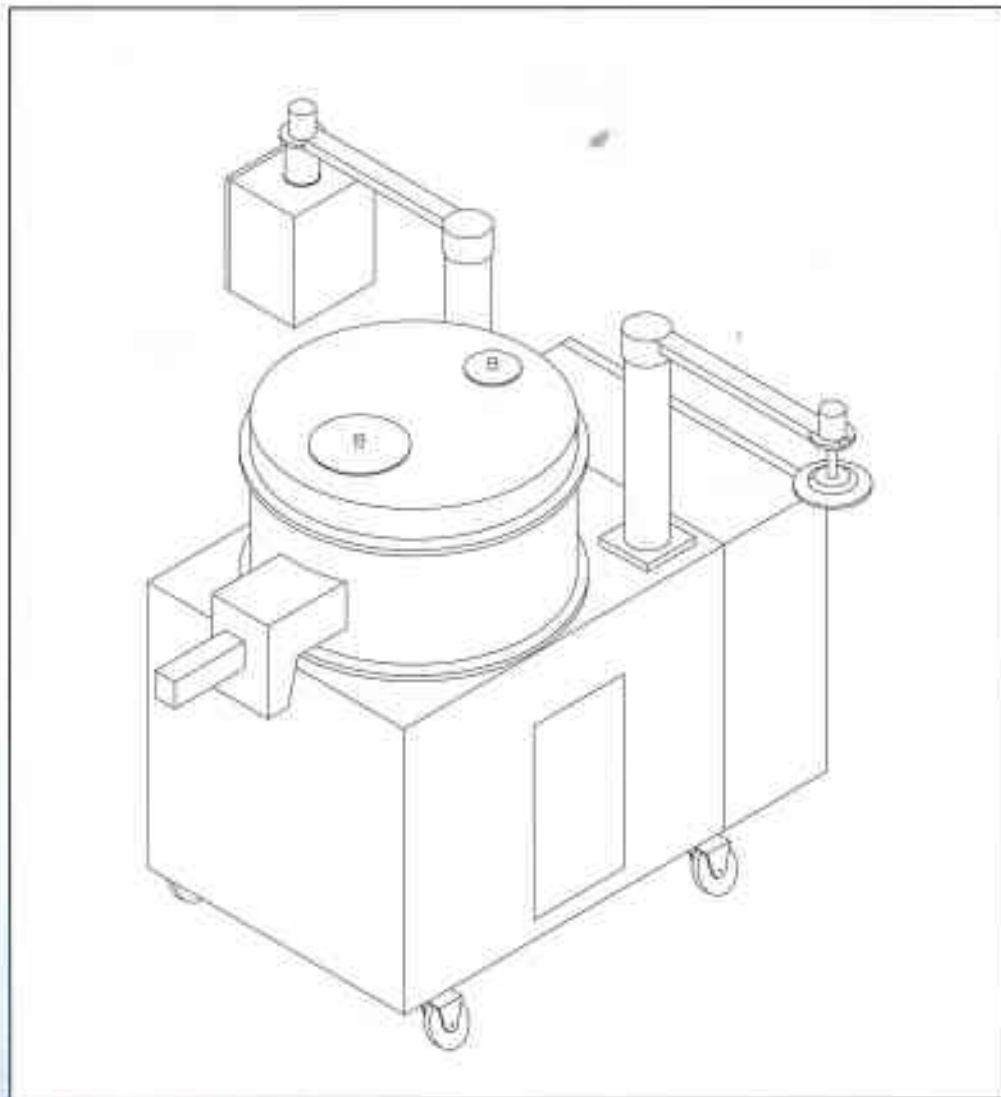
Basic Concept

- Spheroniser drum assembly.
- MOC – All contact part – SS 316 and Non-contact part SS 304. The machine is mobile & fixed type type.
- Drum, controls & discharge assembly.
- The drum will be of rotating design to enable discharge on any side of the drum.
- Fixed with chequered plate of 2mm, 3.25mm, 4mm, 6 mm & 8 mm pitch, any one as per requirement, dynamically balanced & Easily removable for cleaning with lifting screw arrangement.
- Plate diameter depends on size of spheronizer.
- All gaskets in Silicon food grade rubber available white in colour.
- Plate lifting mechanism provided separately along with bucket valve fitted.
- Discharge Assembly-Contact Parts SS316 Non-Contact parts SS304
- Motor (FLP/NFLP) with drive will be provided.
- Surface Finish: 240 grid (mirror finish), 120 grid (matt finish)
- Control System: Manual mode as well as auto mode control panel with speed variance system.
- All fabricated corners are rounded, this is safety feature.

Operation:

Pellets are fed to the spinning friction plate & thrown again the spheroniser bowl forming twisting ropes. Collision of particles with valves, friction plate & other particles, result in the deformation of the pellets into spheres. The final particle shape is depend upon time & formulation dependent. Once the desired shape is achieved the discharge valve is open & batch is collected.

anish Spheroniser



anish Spheroniser Series

Models	R & D Model	Pilot Model	Commercial Model		
			SS-700	TS-700	SS-900
APSH	SS-180	SS-400	SS-700	TS-700	SS-900
Capacities in lit.	0.5-1 lit.	4 lit.	20 lit.	40 lit.	30 lit.

anish pharma equip pvt. ltd.

Works : G-68, MID C, Ambad, Nashik, Maharashtra, INDIA 422010
Telephone : +91-253-238 1831, 238 0337
Fax : +91-253-238 0903
Email : info@anishpharma.com, marketing@anishpharma.com
Web : www.anishpharma.com





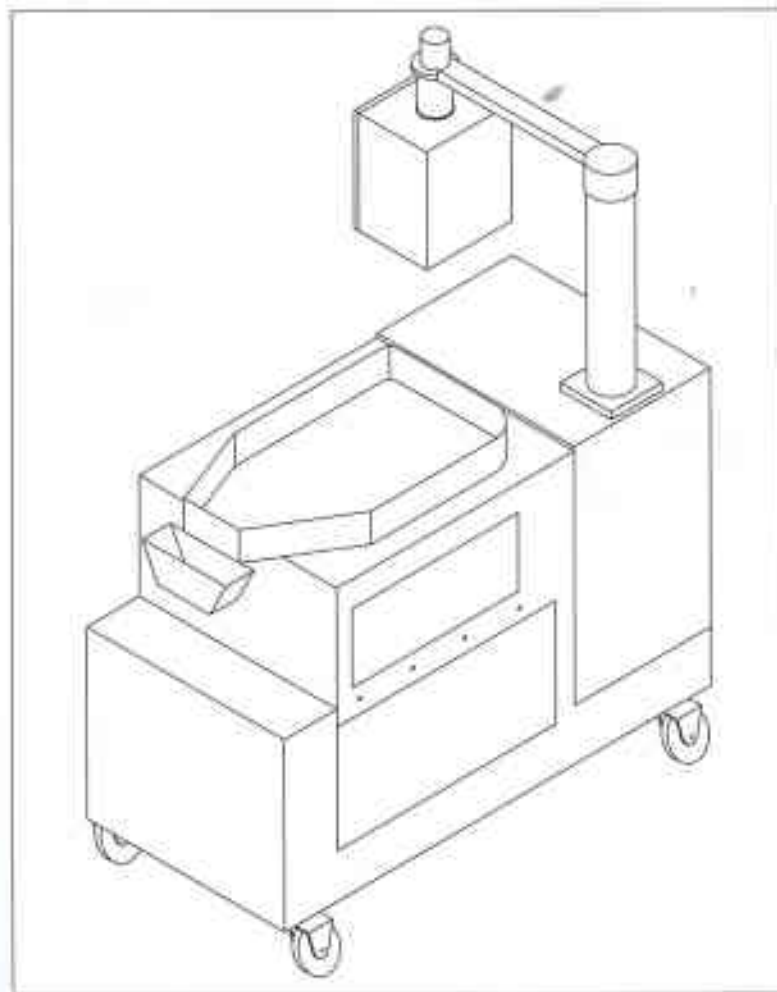
Basic Concept

- Working Capacities : It depends on material and size of sieve.
- Extrusion Assembly: MOC – All contact part – SS 316 and Non-contact part SS 304
- Capable of extruding granules from 0.6 mm to 8.0 mm diameter; axial from 0.8 mm to 82.5 mm diameter; radial from 0.6 mm to 2.0 mm diameter; dome from 0.6 mm to 2.0 mm diameter.
- All gaskets in Silicon food grade rubber white in color.
- Hopper Assembly 15 liters. Capacity feed hopper mounted above the extrusion assembly with feeding plate, the function of this hopper is to feed the transfer screws.
- Discharge tray for fines generated during process.
- Worm gear reduction gear box & speed inverter from 20-130 R.P.M.
- Can be easily converted into a dome, radial or axial extruder.
- Variable speed drive for extrusion screw will be provided.
- Manual mode as well as auto mode control panel with speed variation system.

Operation :

The extruder is fitted with the appropriate die (or screen). The prepared wet material is manually fed through the feed hopper. The wet mass is transported to the extrusion area by a single or double feed screw. The wet material is gently transferred through the die (screen) results in well formed extrudates (Dumbbell shaped or as per requirement).

anish Extruder



anish Extruder Series

Models	R & D Model	Pilot Model		Commercial Model		
AEXT	SS-30	TS-55	SS-80	TS-80	TS-100	TS-130
Capacities kg/hr.	5-10 kg./hr.	15-20 kg/hr.	50-75 kg./hr.	100-150 kg./hr.	150-200 kg./hr.	200-400 kg./hr.

anish pharma equip pvt. ltd.

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Basic Concepts Granulation

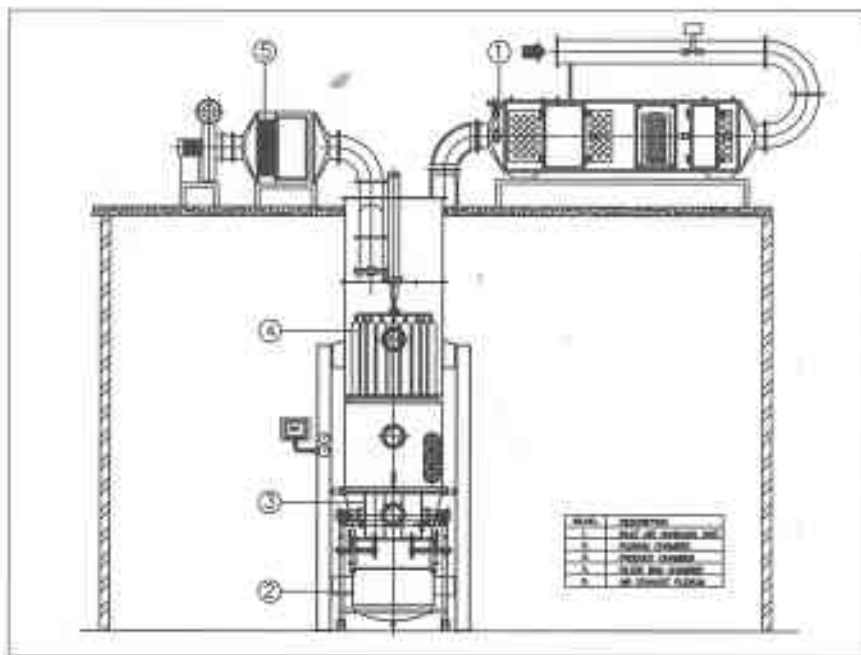
Dry mass is charged into mobile product container. This product container is fitted onto the machine by means of pneumatic pressing device. Fluidization is created by the system's induced draught blower. The filtered air passed over by steam air heater is induced into the product container which in turn creates a fluidization effect for the mass.

Binder is sprayed from top side (counter current spraying) through the spraying system.

This continuous fluidization with the help of controlled, filtered hot air removes the moisture from the mass and thus ultimately results in granulations.

anish Top & Bottom Spray Coater Granulator

ATSG Combo Series



Pelletization

Dry particles or pellets are charged into mobile product container. This product container is fitted onto the machine by means of pneumatic pressing device. Fluidization is created by the system's induced draft blower. The filtered air passed over by steam air heater is induced into the product container which in turn creates a fluidization effect for the mass.

Spraying solution is sprayed from bottom side (co current spraying) through the spraying system.

This continuous fluidization with the help of controlled, filtered hot air removes the moisture from the mass and thus the particles or pellets are coated.

Model- ATSG Combo	5	25	50	125	250	500	800	1300
Container Volume in Liters Bottom spray	NA	20	40	110	200	400	600	1000
Container Volume in Liters Top spray	5	25	50	125	250	500	800	1300

anish pharma equip pvt. ltd.

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Basic Concepts Granulation

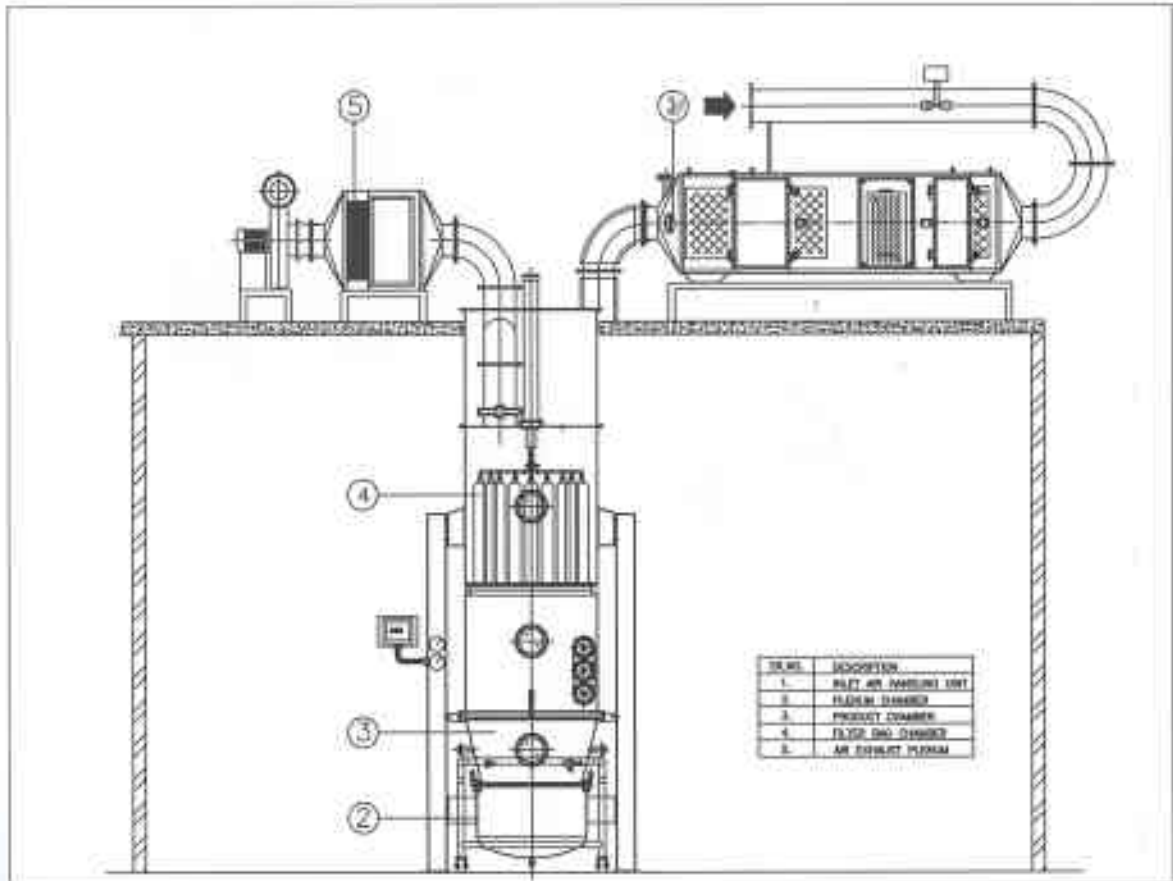
Dry mass is charged into mobile product container. This product container is fitted onto the machine by means of pneumatic pressing device. Fluidization is created by the system's induced draught blower. The filtered air passed over by steam air heater is induced into the product container which in turn creates a fluidization effect for the mass.

Binder is sprayed from top side (counter current spraying) through the spraying system.

This continuous fluidization with the help of controlled, filtered hot air removes the moisture from the mass and thus ultimately results in granulations.

anish Top Spray Granulator

ATSG Series



Model- ATSG	5	25	50	125	250	500	800	1300
Container Volume in Liters Top spray	5	25	50	125	250	500	800	1300

anish pharma equip pvt. ltd.

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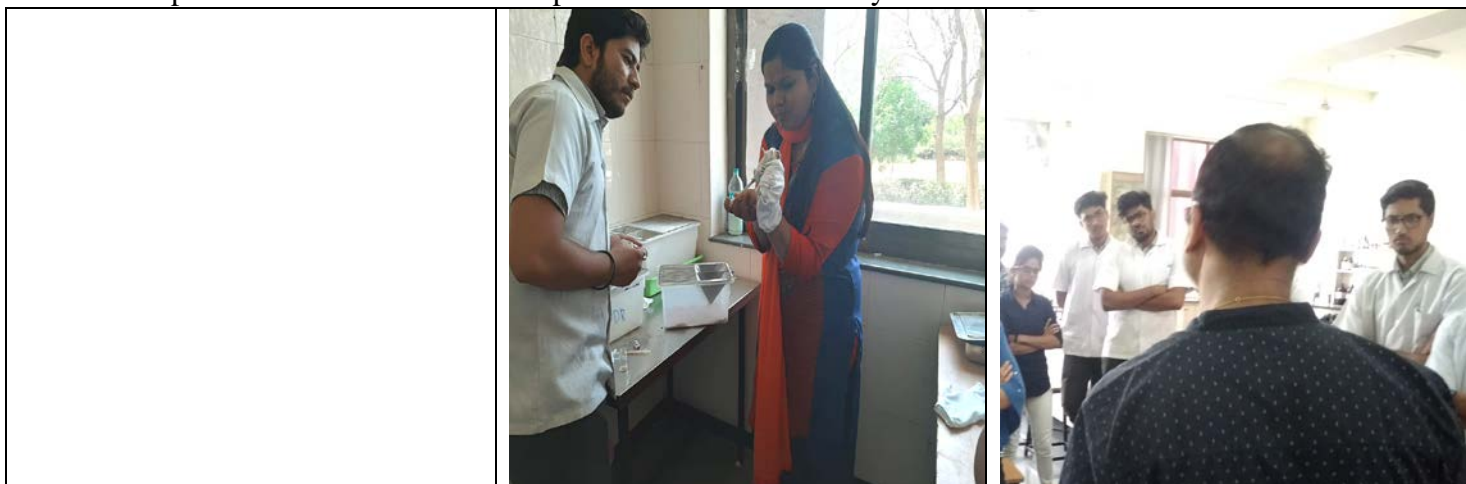




Department of Pharmacology Laboratory Animal Handling Techniques

This basic Course in Laboratory Animal Handling Techniques was conceptualised and started in the academic year 2018-19 during September 2018. The first batch of 07 participants has successfully completed the course. The faculty for the course included experts from the Institute as well as Industry.

Dr. Shekhar Athare from Instem and Faculty members of the Pharmacology department conducted sessions and demonstrated basic techniques of animal handling and some basic preclinical pharmacological techniques. The objective of this course is to meet the quality standards and responsible for directing animal experiments and impart training to the scientists involved in using the laboratory animals for research. This training program is intended to provide the foundation for responsible use of laboratory animals.



Sr. No	Name of student
1.	Mr. Mohd. Athar Shaikh
2.	Ms. Sonal Tathe J.
3.	Mr. Mayur Bari
4.	Ms. Swati Gaikwad
5.	Mr. Yatish Rajderkar
6.	Ms. Vandana Jadhav
7.	Ms. Harshada Mahajan

This course was coordinated by Dr. Pavan B. Udavant.



PRINCIPAL
MET's Institute of Pharmacy,
Bhujbal Knowledge City,
Adgaon, NASHIK-422 003

MET's Institute of Pharmacy
Bhujbal Knowledge City
Adgaon, Nashik- 422003

Module Corelating to Clinical Pharmacy

We MET's Institute of Pharmacy, conduct courses as per syllabus and course structure designed by Savitribai Phule Pune University.

As per syllabus we were having Pathophysiology and clinical Biochemistry subject which was included with Clinical Pharmacy related learning and practical.

This subject includes Theory topics such as-


Definition, types, epidemiology, etiology, clinical manifestations, pathophysiology, Morphological changes, complications, diagnosis & plan of treatment for disorders related to various human systems such as Cardiovascular system, Digestive system, Respiratory system, Urinary system, Endocrine system, Reproductive system, Hematology, Infections and parasitic diseases.

Also includes theoretical discussions and feasible experiments during Practical-

Sr. No.	Experiment
1.	Study of general techniques of collection and recording of specimens of serum/plasma etc. Preservation techniques and their disposal.
2.	Study of qualitative determination of abnormal constituents of urine - sugar, protein, bile salt, bile pigment, ketones bodies.
3.	Chemical examination of stool: occult blood
4.	Kidney function test: To determine creatinine, urea, uric acid and electrolytes such as sodium, potassium, chloride from suitable body fluid
5.	Liver function test: To determine total bilirubin, direct bilirubin, indirect bilirubin, SGOT, SGPT, Alkaline Phosphatase, proteins, globulin, albumin, from suitable body fluid
6.	Cardiac profile tests: To determine Cholesterol, Triglycerides, HDL., VLDL, LDL, Troponin I from the suitable body fluid.
7.	Determination of serum Erythrocyte Sedimentation Rate (ESR)
8.	Determination of blood glucose level and HbA1c

***We kindly request you to consider the same for clinical Pharmacy module if permissible.**




PRINCIPAL
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Adgaon, Nashik-3.

CERTIFICATE COURSE IN PHARMACOVIGILANCE

THE MET LEAGUE OF COLLEGES

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Institute of Pharmacy
MET Bhujbal Knowledge City



in association with

InClination
Inherit The Excellence

Mumbai

Pharmacovigilance refers to science and activities relating to detection, assessment, understanding, and prevention of adverse effects or any other possible drug related problems. Knowledge of pharmacovigilance is essential while working in this sector. This course will provide you state of art knowledge with latest updates in industry.

Benefits: • Understand principle, function and basics of Pharmacovigilance | • Get knowledge to grab jobs in Pharmacovigilance departments of industry | • Useful for career advancement in field of Pharmacovigilance

MET Bhujbal Knowledge City

MET's Institute of Pharmacy is affiliated to Savitribai Phule Pune University and approved by Pharmacy Council of India, All India Council for Technical Education and Directorate of Technical Education started way back in 2006. Institute has excellent state of art infrastructure and strong association with Industries.

Courses Offered by the Institute are :

B.Pharm | M.Pharm (QAT, Pharmaceuticals, Pharm' Chemistry) | Ph.D (Pharmaceuticals)



InClination is a pharmaceutical and clinical research organization. It is fast growing company with expertise in full drug development pipeline. InClination aspires to provide domestic and international pharmaceutical, biotech and, nutraceutical, food, beverage, cosmetics companies with reliable, cost-effective, value-added service, to advance their goals and objectives. Our integrated product development consulting services help biopharmaceutical and medical device companies shorten time to market, manage risk, access new global markets, and leverage the latest technology to maximize portfolio value.

We are ISO 17100: 2015 Certified Organization

COURSE SYLLABUS

1. Introduction and objectives of Pharmacovigilance
2. Adverse drug reactions and their types: The difference between adverse drug reactions and adverse events
3. ADR and Drug Dictionaries
4. Signal detection, strengthening and analysis
5. Safety databases - argus and arisg
6. Good Pharmacovigilance Practices
7. Pharmacovigilance methods and Electronic reporting E2b
8. Safety data exchange agreements
9. Sources of safety data- handling of reports from psp, clinical trials
10. Safety data exchange agreements
11. Literature surveillance - global and local
12. Literature surveillance - global and local
13. Reference safety information and Xevmpd updates
14. Safety data exchange agreements
15. Pharmacovigilance regulations
16. Reporting obligation for MAH and timelines for reporting
17. Documentation in Pharmacovigilance (Aggregate reports.: Pader, psur, rmp, pbrer)
18. Case Studies in Pharmacovigilance
19. Setting Pharmacovigilance Centre
20. Pharmacovigilance Programmes across globe
21. Risk benefit assessment
22. Resume writing
23. Interview skills

Course Structure:

- Total tenure of course will be of 3 months
- Every 15 days class room sessions (5-6 hrs)
- Certificates will be provided after successful completion of course

Learning Deliverables:

- Android App for study material
- E-learning portal to access study material

Examination Pattern

- MCQs
- Problem Solving
- Formative Assignments
- Written Test
- Viva Voce
- Case Studies

Fee Structure : Four thousand Rupees (4500/- + 18% GST= 5310/-) per student
On Successful Completion of Course, Marksheet and Certificate will be issued to every Participant

Dr. S. J. Kshirsagar, Principal, IOP | Dr. D. S. Bhambere, Co-ordinator, Mob.: 09764222761

MET Bhujbal Knowledge City

Adgaon, Nashik - 422003 | Tel.: (0253) 2303515, 2303348 | Fax: (0253) 2303203
enquiries@bkc.met.edu | www.metbkc.edu.in | ☎ 988 110 0099



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InClinition™

Comprehensive Research Solutions

Mumbai

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Benefits: • Understand principle, function and basics of Pharmacovigilance | • Get knowledge to grab jobs in Pharmacovigilance departments of industry | • Useful for career advancement in field of Pharmacovigilance

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to market, manage risk, access new global markets, and leverage the latest technology to maximize portfolio value.

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21. Risk benefit assessment
22. Resume writing
23. Interview skills

Course Structure:

- Total tenure of course will be of 3 months
- Every 15 days class room sessions (5-6 hrs)
- Certificates will be provided after successful completion of course

Learning Deliverables:

- Android App for study material
- E-learning portal to access study material

Examination Pattern

- MCQs
- Problem Solving
- Formative Assignments
- Written Test
- Viva Voce
- Case Studies

Fee Structure : Four thousand Rupees (4000/- + 18% GST= 4720/-) per student
On Successful Completion of Course, Marksheet and Certificate will be issued to every Participant

Dr. S. J. Kshirsagar, Principal, IOP | Dr. D. S. Bhambere, Co-ordinator, Mob.: 09764222761

MET Bhujbal Knowledge City

Adgaon, Nashik - 422003 | Tel.: (0253) 2303515, 2303348 | Fax: (0253) 2303203
enquiries@bkc.met.edu | www.metbhujbalknowledgecity.ac.in | 988 110 0099



Bhaujbal Knowledge City,
MET's Institute of Pharmacy,
Adgaon, Nashik-03

Report on Certificate Course in Pharmacovigilance

MET's Institute of Pharmacy have conducted a short term certificate course in Pharmacovigilance in academic year 2017-18. The course was conducted in association with Inclination, Mumbai. Inclination is a pharmaceutical and clinical research organization. Inclination provides domestic and international pharmaceutical, biotech and, nutraceutical, food, beverage, cosmetics companies with reliable, cost-effective, value-added service, to advance their goals and objectives. Dr. Amrit Karmarkar, Director, Inclination, Mumbai had coordinated the course along with Dr. Deepak Bhambere, MET's Institute of Pharmacy.

There is huge potential for indigenous and outsourced clinical research in India. Such knowledge resides with specialists, such as clinical research associate, clinical team leader, project manager, clinical supply manager, quality assurance manager, medical and regulatory affairs manager, data manager and head of clinical operations. Training of these professionals in GCP standards would go a long way to strengthen the CR industry. Specialized training requirements may include, training on clinical trial process, development of standard operating procedures and GCP and applicable regulatory guidelines. Only few of the present requirement of the trained persons presently required in the healthcare industry are trained and certified annually. As there is no certificate course available in Nashik region about pharmacovigilance and hence the awareness of this course is concealed from the mind of students. There are some course running in Mumbai and Pune but the cost of course is not affordable to students which belongs to poor financial background or from rural region.

In order to bridge this gap MET's Institute of Pharmacy had taken initiative in collaboration with Inclination, Mumbai in order to sensitize the student with this untouched field and conducted a Certificate Course in Pharmacovigilance very affordable fees. The fees for course was decided Rs. 4720/- per student including GST. The tenure of course was decided 3 months. The class room sessions were conducted on every odd Saturday. The syllabus was designed as per the Inclination and some suggestions from PV Scientist working with renowned companies like TCS, Cognizant. The demonstrative/promotional lecture was arranged on 12th Aug. 2017. Total 36 students

enrolled for course from MET's Institute of Pharmacy, Sandip Institute of Pharmaceutical Sciences, R. G. Sapkal College of Pharmacy, Sir Dr. M.S. Gosavi College of Pharmaceutical Education and Research. Along with class room sessions, students were familiarized with some important aspects of PV including ADR and Drug Dictionaries, Signal detection, strengthening and analysis and software Safety databases - ARGUS and ARISG along with live demonstration. Students were provided with free login id and password in order to access Inclination Android App for study material, E-learning portal to access study material.

The course coordinator had conducted weekly assignment from MOODLE App, group discussions, case studies and case presentation from students as a part of course. The examination pattern was decided as MCQs, Problem Solving, Formative Assignments, Written Test, Viva Voce and Case Studies. The final examination was conducted on 3rd June 2018. The certificate distribution ceremony of first batch of certificate course in Pharmacovigilance is organized on 18th Aug 2018.



Dr. S. J. Kshirsagar
Principal

Dr. D. S. Bhambere
Course Coordinator

INTERNAL NOTE

To: Kabra Sir

From: Dr. S. J. Kshirsagar, Principal MET IOP BKC

Date: 22/11/17

Sir

MET's Institute of Pharmacy will be conducting a short term certificate course in Pharmacovigilance in academic year 2017-18. Total 36 students have registered for the course. The **Certificate Course in Pharmacovigilance** is in collaboration with Inclination, Mumbai.

As per MoU, charges for course is Rs.4000/- per candidate and 80% share remains with Inclination and 20% will be given to Institute as consultancy and coordination charges.

Income 20% share	Expenditure of 20% Share to Institute
Rs. 28800/- as a consultancy and coordination charges + GST 18%.	Printing charges for admission forms, question papers, mark sheets, certificates Rs. 1,000/-
	Course co-ordination Rs. 5000 x 1 = 5000/-
	Remuneration to Attendent Rs. 500 x 1 = 500/-
	Total Expenditure: Rs. 6500/-
Total amount remained with MET IOP Rs. 22,300/-	

We kindly request you to approve the same.

[Signature]
23/11/2017

[Signature]
Dr. Sanjay J. Kshirsagar

issue invoice of Rs 28800 + GST 18%

TAX INVOICE

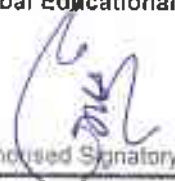
MUMBAI EDUCATIONAL TRUST

GEN. ARUN KUMAR VAIDYA CHOWK, BANDRA (W), MUMBAI - 400 0050

BHUBAL KNOLWEDGE CITY, ADGAON, NASHIK-422 003

E-Mail: met@met.edu

GSTIN No. 27AAATM0985G1ZH

Bill to	Place of Supply	INVOICE No.	Dated
Inclination Pvt Ltd. Mumbai	MAHARASHTRA	BKC-25/17-18	27.03.2018
GSTIN No:-27BHRPK8868D1ZN			
Description of Services	HSN CODE	Amount	
CHARGES FOR CONSULTANCY CHARGES FOR DESIGNING OF COURSE & CO- ORDINATION FOR MAKING ARRANGEMENT OF COURSE			28,800
Total			28,800
Taxable Value			28,800
ADD CGST 9%	9%		2,592
ADD SGST 9%	9%		2,592
Total			33,984
Amount Chargeable (in words) Rupees :-THIRTY THREE THOUSAND NINE HUNDRED EIGHTY FOUR ONLY		For Mumbai Educational Trust	
PAN: AAATM0985G		 Authorised Signatory	
Note-Please make payment in favor of "Mumbai Educational Trust"			
DECLARATION:- We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct			

SUBJECT TO MUMBAI JURISDICTION



विद्यया ऽमृतमश्नुते



www.inclinition.com

Date: 17 July 2017

To
Principal
MET College of Pharmacy, Nasik

From
Amrit Karmarkar
Director – InClinition

Subject: Proposal for Clinical Research & Pharmacovigilance Course

Dear Sir/ Madam,
Please find below proposal Advanced Diploma in Clinical Research & Pharmacovigilance Course (ADCPV) course. This course will be of 6 months duration wherein our faculty will visit twice a month for 3 hours training session in a visit. This means that there will be 13 visits in six months period.

For every course we provide following benefits:

- E-learning portal and Android App for learning to access e-course work
- E-Library with access to 1,00,000 e-books and 10,000 e-journals (one for college)
- Examinations online - online examination or assignments of the course
- E-Newsletter – Receive the fortnightly electronic information resource providing information on global activities, networks, products and services.
- Scientific meetings updates – Get update on workshops and meetings directly on your mailbox.
- Coverage of regulatory and government policies- Get updates on these via electronic information resource

Syllabus of the course is attached herewith.
Please do let me know if you have any questions.

Thanks and Regards,

Amrit Karmarkar
Director - InClinition



**Bhujbal Knowledge City
MET's Institute of Pharmacy**

Industrial Visit 2018-19

Vadivarhe Speciality Chemicals Ltd. Vadivarhe, Igatpuri

Details of the visit are as follows:

- **Name and Address of organization visited:** Vadivarhe Speciality Chemicals Ltd., Vadivarhe, Igatpuri
- **Date:** 23/08/2018 **Time:** 10 am onward
- **Mode of Transport:** College vehicle (Bus)

The following faculty members accompanied the students for the visit:

- Dr. Rani S Kankate, Prof. Sushil D. Patil.
- A total of 56 students took benefit of the visit arranged. List of the names of the students who visited the facility is attached with report.)

Highlights of the visit:

- MET'S Institute of Pharmacy, Nashik organized an industrial visit for the students of Final Year B.Pharm on 17th July 2018 and 18th July 2018 at **Vadivarhe Speciality Chemicals Ltd.**, Vadivarhe, Igatpuri
- Industrial visit is a part of curriculum at MET'S Institute of Pharmacy. The visit commenced with introduction by Mr. Krishnarao L. Patil and Mr. Jayant P. Bhangale at **Vadivarhe Speciality Chemicals Ltd.** about company's profile, facilities, growth and status. Then students were distributed in two groups. Students visited different departments of factory.
- The technical staff from industry explained the details like Process flow of manufacturing of API's starting from Entry of Raw material into the factory till finished product exit from factory. They explained various processes like Mixing, Synthetic reactions, Drying and collection of final product.