

NAAC CRITERIA 02: Teaching-Learning and evaluation

DOCUMENT CODE: 2.3.5

Institutional efforts taken to nurture creativity, analytical skills and innovation among students during the teaching learning process

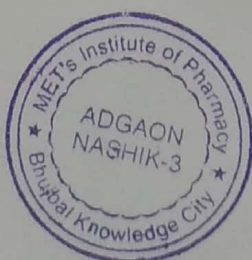
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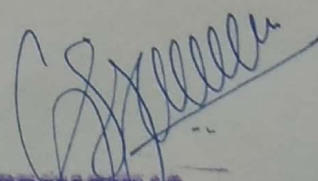
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**MET's Institute of Pharmacy,
Bhujbal Knowledge City, Adgaon- 422 003,
Dist: Nashik (M.S.), India.**

UG Research Project 2018-19

Sr. No.	Name of Students	Title of the Project	Name of Guide
1.	Sudarshan Phatangare	Extraction, Isolation and Evaluation of methanolic extract of Psidium Guajava	Dr. Rani Kankate
2.	Sanjana Labhade		
3.	Chitali Maolde		
4.	Sampat D. Choudhary,	Preparation And Evaluation of Wound Healing Transdermal Patch of Tridax Procumbens	Dr. Sunita Surse Dr. Deepak Bhambere
5.	Anis A. Khan		
6.	Bhavesh .B. Rokada		
7.	Akash Chhedi Yadav,	Piperine , Coriander Extract and Almond Oil : A Solution For Migraine	Dr. Sunita Surse
8.	Chetan Jayram Sasane,		
9.	Shubham Abhiman		
10.	Tayade, Sulakshan		
11.	Nanasaheb Bhadke		
12.	Mukul J.Gupta	Jelly,the mouth Ulcer Remeady	Mr. Sushil Patil
13.	Kaustubh S.Kote		
14.	Manisha Choudhari	Solubility enhancement methods: chemical modification & medicinal chemistry approach	Miss. Kavita Chandramore
15.	Reshmi Sathyan		
16.	Shruti Dhore		
17.	Shubahngi Desai	Antioxidant property of a herbal gel prepared from leaf extract of carica papaya	Dr. Rani Kankate
18.	Tejswini Kshirsagar		
19.	Marathe Dimple Dattatray	Nutritional Choco supplement	Mr. Umesh Ladhha
20.	Pekhale Deepali Ashok		
21.	Badade Gayatri Laxman		
22.	Shirsat Nandini Sanjay		
23.	Aher Shraddha Pramod		
24.	Kavade Vaishnavi Rajesh	Antibacterial Herbal Semisolid formulation	Dr. Sapana Ahirarao
25.	Bothara Tejaswini Sandipkumar		
26.	Gandhi Preeti Pramod		
27.	Pekhale Mrunal Tanaji	Preparation & Evaluation of green scrub	Mr. Umesh Ladhha
28.	Pawar Rutuja Subhash		
29.	Patil Neha Narendra		
30.	Chavan Ankita Sanjay		
31.	Tadge Tejaswini Somnath	Spectroscopic method development & validation of Amlodipine using hydrotropic solubilization	Mr. Bhushan Bhairav
32.	Nikam Nikita Milind		
33.	Shinde Pooja Raju		
34.	Shahane Nikita Rajendra		
35.	Agrawal Mayuri Atulkumar		



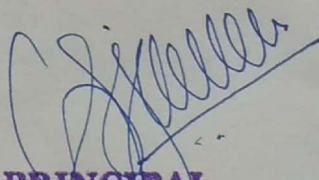

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UG Research Project 2018-19

36.	Loharkar Sarvesh Balkrishna	Anti-inflammatory & Antifungal Gel from Bhallataka	Anjali Tajanpure
37.	Dabhade Savita Dadabhau		
38.	Gadakh Priya Manik		
39.	Pawar Madhuri Sanjay		
40.	Nerkar Sakshi Sunil		
41.	Achane Jyoti Baliram	Formulation & development of dental gel containing clove oil for treatment of periodontal disease	Mr. J B Ugale
42.	Aringale Jagruti Jagan		
43.	Khetade Shraddha Suresh		
44.	Chaudhari Tanaya Ulhas	Preparation & Evaluation of Antidiabetic transdermal Patch of Glimepiride	Mr. J B Ugale Mr. Umesh Ladhha
45.	Bagul Harshada Umesh		
46.	Chaudhari Dhanraj Sunil		
47.	Shelke Anup Nivruttirao		



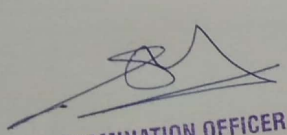

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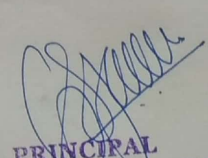
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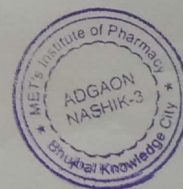
BOS: Pharmaceutical Chemistry

A.Y. 2017-18

Sr. No.	Name of the student	Title of the dissertation	Name of the Guide
1	Khairnar Sarojini S.	Microwave assisted synthesis, characterization and evaluation of substituted benzimidazole derivatives bearing 1-[(3-phenylphenyl)carbonyl]piperazinylalkyl moiety for Antipsychotic Activity.	Dr.Rani.S.Kankate.
2	Alai Luketa R.	Synthesis and evaluation for anticonvulsant activity of some 4H-1,2,4- triazole and 1,3,4-thiadiazole substituted acetamide derivatives	Dr. Dinesh D. Rishipathak
3	Patil Vaibhav P.	Development of liquid-liquid extraction method for cefpodoxime proxetil and its synthesized metabolite in spiked human plasma by using HPLC-UV	Dr S.S. Chhajed
4	Shinde Pooja E.	Design, synthesis and evaluation of antidiabetic activity of few thiazolidine- 2, 4- diones as a peroxisome proliferator activator receptor _γ agonist.	Dr S.S. Chhajed


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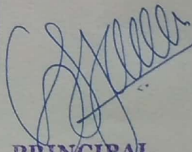
BOS: Quality Assurance Techniques

A.Y. 2017-18

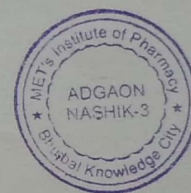
Sr. No.	Name of the student	Title of the dissertation	Name of the Guide
1	Badhe Pratik S.	Formulation development and evaluation of gastroretentive multiunit particulate system	Dr. S. J. Kshirsagar
2	Khade Yogita R.	Formulation development and in-vitro-in-vivo correlation of oxcarbazepine tablet.	Dr. S. J. Kshirsagar
3	Badhan Rohit B.	Development and validation of UV- Spectrophotometric & RP-HPLC Simultaneous method for Pharmaceutical drugs.	Prof.Sushil D.Patil
4	Shaikh Abdhul Muqet	Development and validation of Stability indicating RP-HPLC Method for Pharmaceutical drug	Prof.Sushil D.Patil
5	Chandwadkar Rahul K.	METHOD DEVELOPMENT AND VALIDATION FOR AZELASTINE HYDROCHLORIDE IN PURE FORM BY USING UV SPECTROPHOTOMETRY AND FOR DETERMINATION OF AZELASTINE HYDROCHLORIDE AND FLUTICASONE PROPIONATE IN NASAL SPRAY BY USING RP-HPLC	Dr.Deokar G.S
6	Jadhav Sonam K.	FORMULATION, DEVELOPMENT AND EVALUATION OF CHLOROTHALIDONE NANOSUSPENSION FOR ORAL ADMINISTRATION.	Dr.Deokar G.S
7	Patil Alok Nitin	RP-HPLC METHOD DEVELOPMENT AND VALIDATION OF GLYCOPYRROLATE IN DRY POWDER INHALER AND UV-SPECTROPHOTOMETRIC METHOD DEVELOPMENT AND VALIDATION OF GLYCOPYRROLATE IN BULK DRUG	Dr.Deokar G.S
8	Zinjurde Sharda Annasa	FORMULATION DEVELOPEMENT AND EVALUATION OF MOUTH DISSOLVING TABLETS OF VENLAFAXIN HYDROCHLORIDE .	Dr.Deokar G.S
9	Mokashi Aishwarya S.	Development and Optimization of liquid-liquid extraction using experimental design approach and its application for quantification of oxcarbazepine in spiked human plasma by HPLC- UV	Dr. S. S. Sonawane

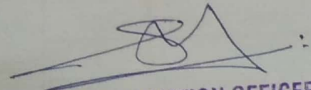


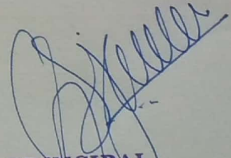

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10	Hardas Ankit B.	Development and validation of stability indicating HPLC method for estimation of apremilast in bulk and tablet: Application to degradation kinetics and characterization of its alkali degradation product	Dr. S. S. Sonawane
11	Amale Meghana R.	Development and validation of stability indicating HPLC method for estimation of sertaconazole nitrate in bulk and topical formulation: Application to degradation kinetics and characterization of its acid degradation product	Dr. S. S. Sonawane
12	More Sayali S.	Development and validation of HPLC and Chemometric UV-Vis spectrophotometry methods for simultaneous estimation of Saxagliptin and Dapagliflozin in bulk and tablet	Dr. S. S. Sonawane
13	Jadhav Dipika R.	Development and validation of stability indicating HPLC method for estimation of levetiracetam in bulk and tablet: Application to degradation kinetics	Dr. S. S. Sonawane
14	Bankar Pooja C.	Development and validation of stability indicating HPLC method for estimation of Azelnidipine in bulk and tablet: Application to degradation kinetics	Dr. S. S. Sonawane
15	Mandan Jugal D.	Development and Validation of Stability Indicating Assay Methods for Felodipine and Amlodipine Using Experimental Design Approach And its application to degradation kinetics using HPLC.	Dr.S.S. Chhajed
16	Jamdhade Swati V.	Formulation development and evaluation of Cream based cosmeceuticals	Dr. N. A. Thombre
17	Ahire Pradeep S.	Formulation development and evaluation of mouth dissolving tablet of Aspirin by using QbD approach	Dr. N. A. Thombre




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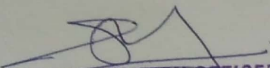

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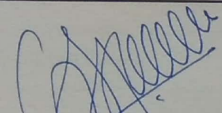
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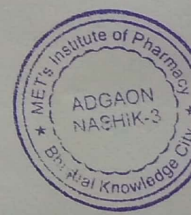
BOS: Pharmaceutics

A.Y. - 2017 - 18

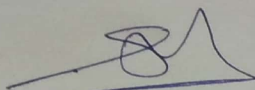
Sr. No.	Name of the student	Title of the dissertation	Name of the Guide
1	Gangurde Trupti D.	Formulation and Development of Antiviral Nanosuspensions for NeuroAIDS Treatment via Nasal Route .	Dr. S. J. Kshirsagar
2	Kapadne Chetana J.	Formulation and Evaluation of Nanosponges for colon specific drug delivery system	Dr. S. J. Kshirsagar
3	Mojad Ankita A.	Formulation Development and Evaluation of Nutraceutical Premix Powder in Ready to Serve form	Dr. S. J. Kshirsagar
4	Khedekar Yogesh B.	Development and evaluation of silymarin loaded polylactide-co-glycolide-nano zinc oxide particles	Dr. M. P. Patil
5	Bhagade Pallavi M.	Formulation, optimization and evaluation of sertaconazole nitrate nanostructured lipid carrier for topical use	Dr. M. P. Patil
6	More Rutuja K.	Formulation development and evaluation of thicolchicoside loaded microspheres	Dr. M. P. Patil
7	Ekhande Shradhha P.	Formulation development and evaluation of topical gel containing tannins isolated from <i>Terminalia Arjuna</i>	Dr. M. P. Patil
8	Sonawane Diksha S.	Development, optimization and evaluation of lipospheres of celecoxib	Dr. M. P. Patil

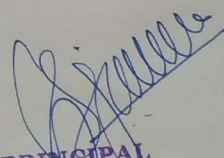

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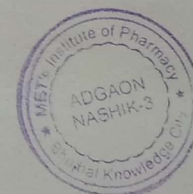

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Sr. No.	Name of the student	Title of the dissertation	Name of the Guide
9	Rahane Amol D.	Formulation, development and evaluation of ambroxol hydrochloride beads using sodium alginate.	Dr.Deokar G.S
10	Mahajan Paresh P.	Formulation development and evaluation of <i>Zea mays</i> based Nutraceuticals	Dr. N. A. Thombre
11	Bagdane Atul G.	Formulation development & evaluation of Atenolol based medicated chewing gum.	Dr. N. A. Thombre
12	Malsane Pradip N.	Formulation development and evaluation of Pentoxifylline loaded nasal thermoreversible gel	Dr. N. A. Thombre
13	Wagh Pooja K.	Formulation and Evaluation of Gastro retentive drug delivery system of Ranitidine Hydrochloride.	Dr. S. P. Ahirrao
14	Rathi Kishor S.	Formulation development and evaluation of orodispersible tablet using Nitazoxanide solid dispersion.	Dr. S. P. Ahirrao
15	Bhise Akash S.	Solubility Enhancement of Candesartan cilexetil using liquisoild compact technique	Dr. S. P. Ahirrao


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Third Year B Pharm

SEM: V

Subject: Pharmaceutical Management

Topic: Patent violation & infringement

- ① Novartis v/s Cipla battles on respiratory drug
- ② plaintiff
Merck sharp & Dohme co-corporate
v/s
Defendant Glenmark pharmaceutical



Subject I/c

- (i) Suresh Kumar Choudhary
- (ii) Piyush R. Ingale
- (iii) Sanket M. Bhad
- (iv) Jayashree More

Choudhary

Ingale

Bhad.

More.

Novartis - Cipla battle

(Third most watched cases)

Case: (Sued)

Novartis to Cipla for infringing on its
 patent for respiratory drug

ONBREZ onbrez

place - New delhi high court

New/Incidence -

New delhi High court

Cipla chairman K. Kamal refused to comment saying that the matter was sub-judice. Company executives, who didn't want to be named, point out towards the needs to improve supply of respiratory drug. Considering that there are about 1.5 crore asthma patients in the country.

Novartis, however, substantiates claims of a drug shortage. There is ample supply of onbrez & cipla claimed that there is a shortage of onbrez lacks any substance.

Novartis spokeswoman Svetlana Pinto said adding that the Indian company argument that the Swiss firm's patent is not valid in India is therefore incorrect.

Pinto also said that Novartis had in November won a trademark

patent infringement

Novartis - Cipla battle

case :- sued

Novartis to Cipla for infringing on its patent for the respiratory drug ONB Onbrex

place for infringement solution
— at New Delhi high court

Details :-

In April 2013, the supreme court dismissed a plea by Novartis against Natco pharma on a patent for the brain cancer drug Gleevec. And just a few days ago, supreme court dismissed Bayer corp appeal against the Bombay high court decision in July refusing to revoke a compulsory licence issued to Hyderabad-based Natco to sell a version of the German drug company kidney-cancer drug Nexvar.

Cipla chairman YK Kamlied refused to comment saying that the matter was sub-judice. Company executives, who didn't want to be named point out towards the need to improve supply of respira

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toy drug considering that there are about 1.5 crore asthma patients in the country.

Novartis, however, publishes claims of a drug shortage. There is ample supply of ambrez & cipla claimed that there is a shortage of ambrez lacks any substance. Novartis spokeswoman svetlana pinto said adding that the indian company argument that the swiss firm's patent is not valid in india is, therefore incorrect.

pinto also said that Novartis had in November won a tread mark dispute against cipla for the drug since the indian company's brand was Unibrez.

Mees Jayashree D.

T.Y B Pharm.

11/06/17

Case → Plaintiff

Merk Sharp & Dohme Corporation
vs.

Defendant Glenmark Pharamaceu

Order delivered on: 7th Oct, 2015

Cases → Plaintiffs filed this suit against the defendant for permanent injunction in respect of Sitagliptin Phosphate Monohydrate or any other salt of Sitagliptin in any form, alone or in combination that infringes the claimed Plaintiffs Patent No 209816.

The defendants were selling Sitagliptin Phosphate monohydrate under the brand ZITA & Sitagliptin Phosphate Monohydrate & Metformin Hydrochloride under the brand name ZITA-MET.

Defendant has alleged that it does not infringe the suit patent since :-

- it lacks inventive step.
- Patent was obtained on a false suggestion or representation & was liable to be revoked under Section 64(C) (i) of Act.
- Disclosure was insufficient with the meaning of Section 64(C) (b) as complete specification was not disclosed regarding the preparation of Sitagliptin base.

Patent Infringement

Page No. :

Date :

Title - Novartis - Cipla battle
(Third most watched case)

Case / Subject of infringement

- Novartis sued Cipla for infringing on its patent for respiratory drug Onbrez.

Place for infringement solution

- New Delhi High Court.

Infringement Detail..

In April 2013, the Supreme Court dismissed a plea by Novartis against Natco Pharma on a patent for the cancer drug Glivec. And just a few days ago, the Supreme Court dismissed Bayer Corp's appeal against a Bombay High Court decision in July refusing to revoke a compulsory licence issued to Hyderabad based Natco to sell a version of the German drug company's kidney cancer drug Nexavar.

Industry experts say the Novartis Cipla case also raises similar issue that previous case did not availability of medicines, non working of the patent in India and unaffordable pricing.

Cipla Chairman V.K. Hamied refused to comment saying that matter was sub judice. Company executives (who didn't want to be named) point out towards the need to improve supply of respiratory tract drugs considering there are 1.7 bn people with asthma. Novartis, however, rubbishes claims that there is a shortage of onbrez. lack any substance! Novartis spokeswoman Svetlana Pinto said adding that the India company's argument that the Swiss firm patent is not valid includes therefore, incorrect

Pinto also said that Novartis had in November won a trademark dispute against Cipla for the drug name Indig company brand was canibres which sounded similar to Novartis Onbrez.

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INSTITUTE OF PHARMACY

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.

-: Courses Offered :-

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

Two days state level Conference

Industrial Perspectives on Quality Assurance Aspects

Sponsored by :

25th and 26th November 2016



Savitribai Phule Pune University

**INDUSTRIAL
PROBLEM SOLVING
COMPETITION
FOR
STUDENTS**



MET's INSTITUTE OF PHARMACY
Bhujbal Knowledge City, Adgaon, Nashik

PROBLEM SOLVING COMPETITION

Code	Registration No.	Name of College	Name of Student	Sign
	1	MET IOP Nashik	swati Jamdhade Jugal Mandar Yogita Khade Rohit Badhan	
	2	MET IOP Nashik	Pradeep Athire. Pratik Badhe. Meghana Amle. Dipika Jadhav	
	3	MET IOP Nashik	Sagar Nemade Nikhil Nemade sayali chavle sushal pingale	
	4	MET IOP Nashik	Aarti Sonar Ashwini Parmar Vishal Sapakale Shradha Vinchu	
	5	MET IOP Nashik	Devayani G. Aher Mayura N. Ghumare Kailasha Attar Yogita A. Morade Kiran Madhwarai	
	6	MET IOP Nashik.	Aashish kokate Vrushali Powgy Varpe prajakta	
	7	MET IOP Nashik	Desale Snehal Jaikwad Vika Jade Vilas Aishwarya Motkashi Alok Pabli	

2

Good literature.

12/20
17/20

Group No: 5

MET'S Institute of Pharmacy,
Bhujbal Knowledge City, Adgaon, Nashik

Date: - 25th & 26th Nov 2016

Two Days State Level Conference Industrial Perspective on Quality Assurance Aspects

Industrial Problem Solving Competition for Students

Problem A

A Pharmaceutical Company have invented a Peptide drug which is very helpful in curing tissue damage. This peptide is suitable for subcutaneous topical application. The dose of peptide required is too high to formulate; the reason behind is hydrolytic and photolytic degradation. Suggest a way out to make stable formulation at least stable for 1 year.

Solution: A liquid formulation of peptide containing suitable buffers which will provide pH in the range 4-9 and cosolvents such as propylene glycol and glycerol can be prepared for use by subcutaneous route. This pH and cosolvents will give hydrolytic stability & formulation will be required to store under refrigeration at 4°C or colder away from bright light for preventing from photolytic degradation. Before using, remove the container from cold storage & allow it to equilibrate to R.T. or slightly warmer before opening it. This will reduce the uptake of moisture and increase long term stability.

Problem B

KK pharmaceuticals has invented and patented a Sustained release formulation (SRF). The drug in their formulation is highly water soluble. As a part of their patent strategy they have patented all the hydrophobic excipients which can help in coating multi particulate drug delivery (MUMPS). There formulation releases 20 % of drug within 2 hours, 50 % drug in 6 Hours and 90 % drug at 10 Hours. JJ pharmaceuticals want to develop a generic formulation of the same compound with cost effective way. Suggest a way out to formulate cost effective unit solid oral dosage form with list of excipients.

Solution: Alginate matrix tablets can be prepared by using sodium alginate and calcium gluconate or any other source of calcium. For sustained release of drug. Direct compression, dry granulation and wet granulation can be used. Sodium alginate is a hydrophillic biopolymer which retards drug release is used as binder in the tablet. It forms water insoluble calcium alginate gel through isotropic gelation with Ca²⁺ ions. When such tablets come in contact with aqueous medium, in situ gelation takes place & diffusion of drug occurs through the gel matrix.

MET/BKC/IOF/Seminar/Problems

MET'S Institute of Pharmacy,
Bhujbal Knowledge City, Adgaon, Nashik

Two Days State Level Conference Industrial Perspective on Quality Assurance Aspects

Industrial Problem Solving Competition for Students

Problems with the Chromatogram (Combined Data for Problem C & D)

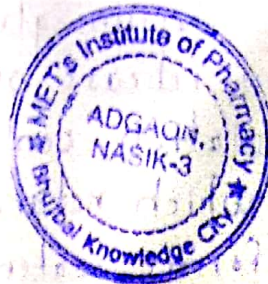
Many problems in an LC system show up as changes in the chromatogram. Some of these can be solved by changes in the equipment; however, others require modification of the assay procedure. Selecting the proper column type and mobile phase are keys to "good chromatography."

Problem C Split Peaks

Possible Cause	Solution
1. Contamination on guard or analytical column inlet	- If analytical column is obstructed, reverse and flush. - Change frit or replace column.
2. Sample solvent incompatible with mobile phase	- Change solvent - Whenever possible, inject samples in mobile phase

Problem D Distortion of Larger Peaks

Possible Cause	Solution
1. Sample overload	- Reduce sample size. - Increase column length.



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Industrial Perspectives of Natural Product Formulations

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**INDUSTRIAL
PROBLEM SOLVING
COMPETITION
FOR STUDENTS**





Problem Solving Competition



Winners: Vallabh Suryavanshi, Pratik Shinkar, Bhushan Mahajan (MGV's Pharmacy college, Nashik)

Runner up: Yatish Rajderkar, Priyanka Shinde, Akshada Pinale, Ankita Kulthe (MET's Institute of Pharmacy, Nashik)

Number Of Participants:
TOTAL DELEGATES: 164
 Delegates from SPPU : 142
 Delegates from From Other Universities: 10
 Delegates from MSBTE: 11
 Delegates from Industry: 01



Convenor: Dr. Sanjay Kshirsagar

Co-ordinator: Dr. Sunita Surse

Year of Establishment : 2006
Affiliated to MSBTE, Mumbai
Approved by AICTE,
PCI (New Delhi), DTE (Mumbai),
& Govt. of Maharashtra
Course Offered : D.Pharm



SMBT Sevabhavi Trust's
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Tel. : (02553) 282346, 282352 Website : www.smbt.edu.in
E-mail : smbt_77@rediffmail.com, info.pharmacy@smbt.edu.in

55th NATIONAL PHARMACY WEEK- 2016-17

"Responsible Use of Antibiotics Saves Lives"

EVENT: "PHARMA MODEL MAKING."

(5th January 2017)

To,
The Principal
S.M.B.T Institute of D.Pharmacy,
Nandi-Hills Dhamangaon,
Tal:-Igatpuri Dist:-Nashik.

Dear Sir,

With reference to your appeal for 55th National Pharmacy Week Pharma Model Making Competition, I am pleased to forward the entry form of our college participants. Please find enclosed entry form duly filled in.

Name of the Institute/College: MET Institute of pharmacy, Bhujbal knowledge City, adgaon.

Slot A: - D.Pharmacy

Sr. No.	Participant name	Topic	Year
1			
2			

Slot B: - B.Pharmacy + M.Pharmacy

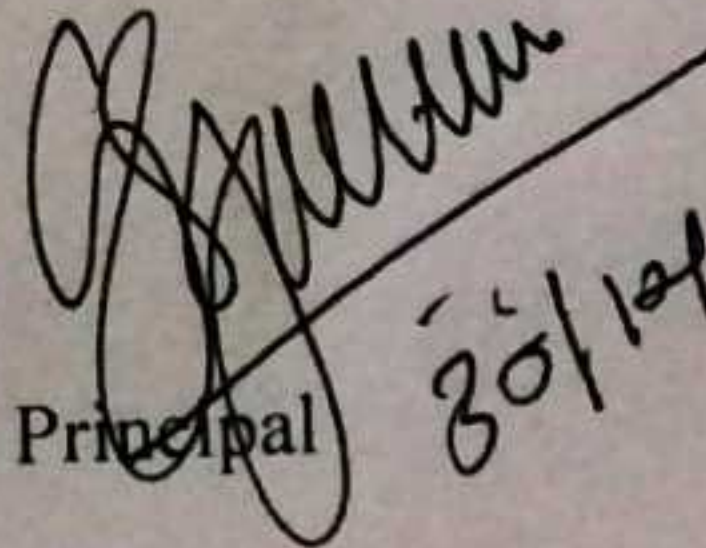
Sr. No.	Participant name	Topic	Year
1	Piyush R. Ingale	Palatization	2nd year
2	Manasi S. Hembade		2nd year

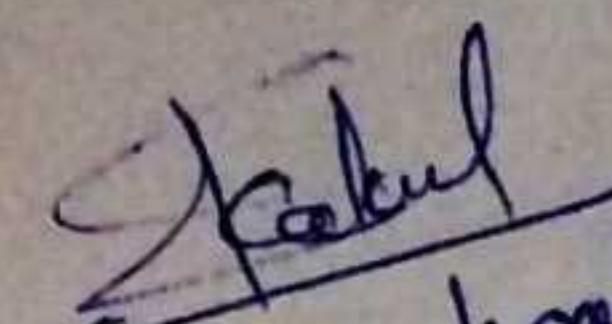
Send this scan form on - smbtdiplomapharmacy@gmail.com, tiwarikudan236@gmail.com

Name, Sign & Contact number of

NPW coordinator




Principal 30/1/16


Mrs. S.P. Kakad
7588551172

Bhujbal Knowledge City
MET's Institute of Pharmacy, Adgaon, Nasik

Innovative Practices

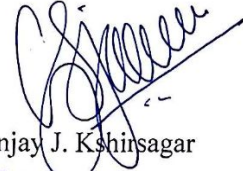
Gyanguru

Gyanguru is a knowledge platform initiated in order to

1. support/generate interest in student's mind for novel drug delivery systems along with theoretical concepts as per syllabus.
2. help students for sharing recent knowledge, understanding of current scenario of pharmaceutical industry and enabling right exposure for thinking of the novel ideas.



Dr. Nilima A. Thombre



Dr. Sanjay J. Kshirsagar


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

Bhujbal Knowledge City
MET's Institute of Pharmacy, Adgaon Nasik

Gyanguru

2016-2017

Sr. No.	Name of the student	Topic
1.	Shelar Monali Eknath	Hairpin Peptide hydrogel for package delivery
2.	Ugale Akanksha Ravindra	Ophthalmic drug delivery system
3.	Pansare Prajakta Arun	TDOS, Iontophoresis
4.	Surwade Nivedita Shivaji	Novel advanced drug delivery system
5.	Jadhav Vandana Balasaheb	Drug delivery system for ovarian cancer
6.	Salunke Neha Arun	Sustained release newly developed dosage forms
7.	Nimse Ashwini Shrikrishna	Cancer treatment using biomarkers
8.	Patil Umesh Sanjiv	High doses of vitamin C to improve cancer treatment
9.	Tidke Sonali Vilas	3D printing



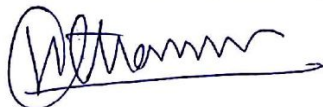
Dr. Nilima A. Thombre

Bhujbal Knowledge City
MET's Institute of Pharmacy, Adgaon Nasik

Gyanguru

2017-2018

Sr. No.	Name of the student	Topic
1.	Khalkar Priyanka Subhash	Against cancer- Sour sop fruit
2.	Nathe Kanchan Uttam	Artificial skin
3.	More Monika Rajendra	Depot system- innovation in parenteral dosage form
4.	Agone Shailesh Bhanudas	Tumour targeted contrast agents
5.	Badgujar Nitin Nana	Making biological drugs with spider silk protein
6.	Bharsat Poonam Raghunath, Bhande Sayali Sudhakar	3D printed drug technology
7.	Bhagwat Kanchan Nandkumar	Metformin drug Abdominal Aortic Aneurysm
8.	Bodke Sarika Ramesh	NIH study
9.	Chande Kinjal Dilip, Boraste Sanket Kailas	Isolation anticancer drug from urine
10.	Chauhan Bhavi Sanjay	HIV/AIDS
11.	Gahiwad Rashmi Dilip	A diffusing wave spectroscopy study
12.	Khurdal Ganesh Nandu	Side effect of carbobnated water
13.	Lalchandani Dimple Sunil Kumar, Lohar Mohini Anil	Anti-inflammatory drugs inhibit muscle growth
14.	Nikam Seema Ramchandra	Treatment of Alzheimer using green tea
15.	Pingale Mrunal Kamalakar	Fish therapy for asthama
16.	Pingle Gayatri Vilas	New sound treatment kills cancer without chemotherapy
17.	Kapadnis Neha Nandkishor	Utilisation of stem cells in treatment of arthritis



Dr. Nilima A. Thombre

TURMERIC



Synonyms: Curcuma; Indian Saffron; Turmeric.

Biological Source: Turmeric is obtained from the rhizome of *Curcuma longa* Linn. (*Curcuma domestica* Valetton) belonging to the Natural order *Zingiberaceae*.

Macroscopy : externally drug is yellowish brown in colour with characteristic odour and slightly bitter taste. round turmeric

rhizomes are oblong while long variety is cylindrical and short branched. Root scars and annulations are present. Fracture is horny and internal surface is orange. Rhizomes are 5 to 10 cm long and 2 to 4 cm in width in size.

Chemical Constituents: It contains volatile oil (5-6%), resin and substantial quantity of zingiberaceous starch grains. The yellow colour in turmeric is due to the presence of curcuminoids which contains curcumin as given below:

The curcuma oil* obtained from it contains (\pm)-ar-turmerone as given below: The volatile oil contains a host of chemical substances, such as: *d*- α -phellandene, *d*-sabinene, cineol, borneol, zingiberene, and sesquiterpenes.

Turmeric also contains some other chemical constituents, namely: *p,p*-dihydroxy dicinnamoylmethane; *p*- α -dimethyl benzyl alcohol; *p*-hydroxycinnamoylferuloylmethane; 1-methyl-4-acetyl-1-cyclohexene; and caprylic acid.

Uses

- It is extensively used across the globe as a condiment as curry powder.
- It is employed as a colouring agent for ointments.
- 3. It is used medicinally as a tonic, as a blood purifier, as an anthelmintic and finally as an aid to digestion.
- It is used externally in the form of a facial cream to improve complexion and get rid of pimples.
- A small quantity of turmeric when boiled with milk and sugar; it helps to cure common cold and cough symptoms.

TULSI



SYNONYM:-Scared basil, kali tulsi

BIOLOGICAL SOURCE:-Tulsi consist of the fresh and dried leaves of *Ocimum* Species like *Ocimum sanctum Linn* and *Ocimum basilicum Linn* belonging to family **Lamiaceae**(mint family) and contains not less than 0.40 per cent eugenol on dried basis.

MACROSCOPY:-It multi branched small herb 30-75cm in height.All parts of tulsi used in medicine, especially fresh and dried leaves. Leaves are oblong, acute with entire or serrate margin, pubescent on both sides and minutely gland-dotted. The leaves are green in colour with aromatic flavour and slightly pungent taste.Flowers are purplish in colour in the form of racemes. Nutlets are subglobose, slightly compressed, pale brown or red in colour. Seeds are reddish- black and

subglobose.

CHEMICAL CONSTITUENTS:-Tulsi leaves contain bright,yellow coloured and pleasant volatile oil(0.1-0.9 per cent).The oil content of the drug varies depending upon the type,the place of cultivation and season of its cultivation.The oil is collected by steam distillation method from the leaves and flowering tops.It contain approximately 70 per cent eugenol , carvacrol (3 per cent) and eugenol-methyl ether (20 per cent). It also contain caryophyllin.Seeds contain fixed oil with good drying properties.

USES:-

- The fresh leaves, its juice and volatile oil are used for various purposes.
- The oil is antibacterial and insecticidal.
- The leaves are used as stimulant, aromatic, antidiarrheal, spasmolytic, diaphoretic.
- The juice is used as an antiperiodic and as constituents of several preparations for disease and also to cure ear-ache.
- Infusion of the leaves is used as stomachic.
- The drug is immuno-modulatory agent.



INDIAN PHARMACEUTICAL ASSOCIATION

NASHIK LOCAL BRANCH

56th NATIONAL PHARMACY WEEK 2017-2018

22nd January 2018 to 30th January 2018

"Know Your Medicines: Ask Your Pharmacist"

Certificate

This is to certify that Mr./Miss. Nikita Rameshwar Dhoble
of MET's college of pharmacy, Nashik participated and secured
First / Second position in scientific Innovative Advertisement (UG + PG group) (Winner)
competition, organized as part of 56th National Pharmacy Week celebration of IPA, Nashik Local
Branch at A.D.F. Lodha pharmacy college, Chandwad.

Date :

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Secretary

Dr. D. V. Derle
Vice President

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