



## VIVEKANAND EDUCATION SOCIETY'S COLLEGE OF PHARMACY

Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai – 400 074

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### 2.3.2

**Teachers use ICT enabled tools for  
effective teaching-learning process.**

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# Dashboard

## Published Courses (10)

**Coming Up** [View Calendar](#)  
Nothing for the next week



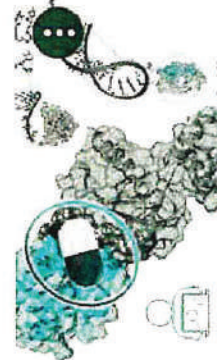
Advanced Organic Chemistry-II  
AOC-II



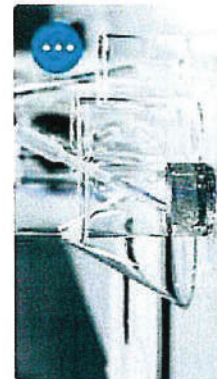
Advanced Organic Chemistry-I  
AOC-I



Advanced Medicinal Chemistry  
AMC



Computer Aided Drug Design  
CADD



Organic Chemistry III  
OC III



Organic Chemistry Lab II  
OC Lab II



*Dr. Arvind  
ICT Incharge*



*Dr. (Mrs.) Supriya S. Shidhaye*  
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**VIVEKANAND EDUCATION SOCIETY'S COLLEGE OF PHARMACY**

Select Subject: BACHELOR IN PHARMACY SEM 2 - BP202T - F

Welcome to Work Area Of BACHELOR IN PHARMACY SEM 2 - BP202T - PHARMACEUTICAL ORGANIC CHEMISTRY I (TH) - 4.00

Syllabus | Announcement | E-Library | Teaching Plan | Lecture Notes | Assignment | Obj Cue Bank | Import Obj Cue | Test | Direct Desc Que | Des Cue Bank

Check Date Test | Check Assignment | Result Process | Transfer Test Marks | Transfer Running Activity | Export Cue Bank | Search E-Library | Discussion Forum | Test Troubleshooting

Publication Marks | Transfer Assignment Marks | Online Class

Event Calendar

May 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21

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Dr. Anand ICT - incharge

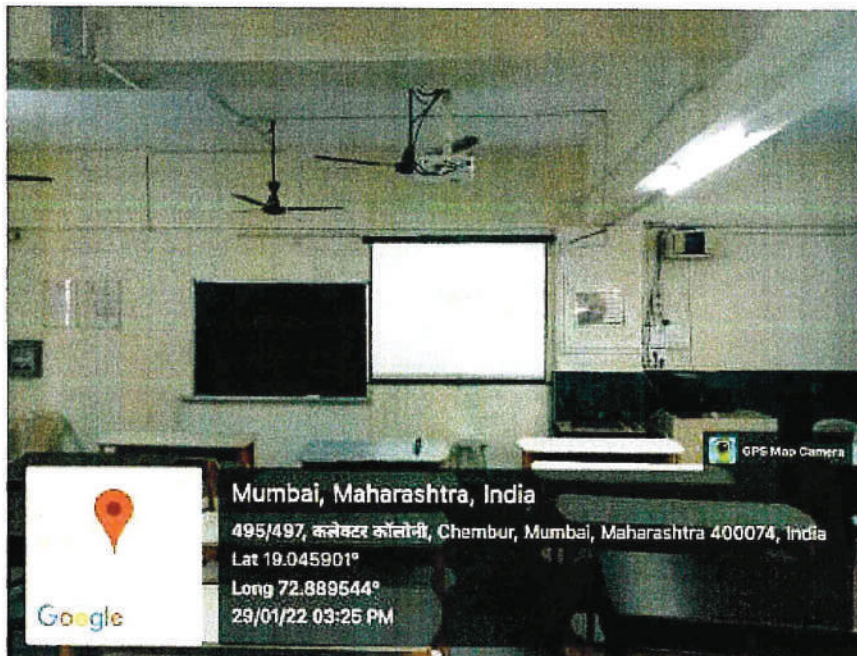




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I.C.T. Indange



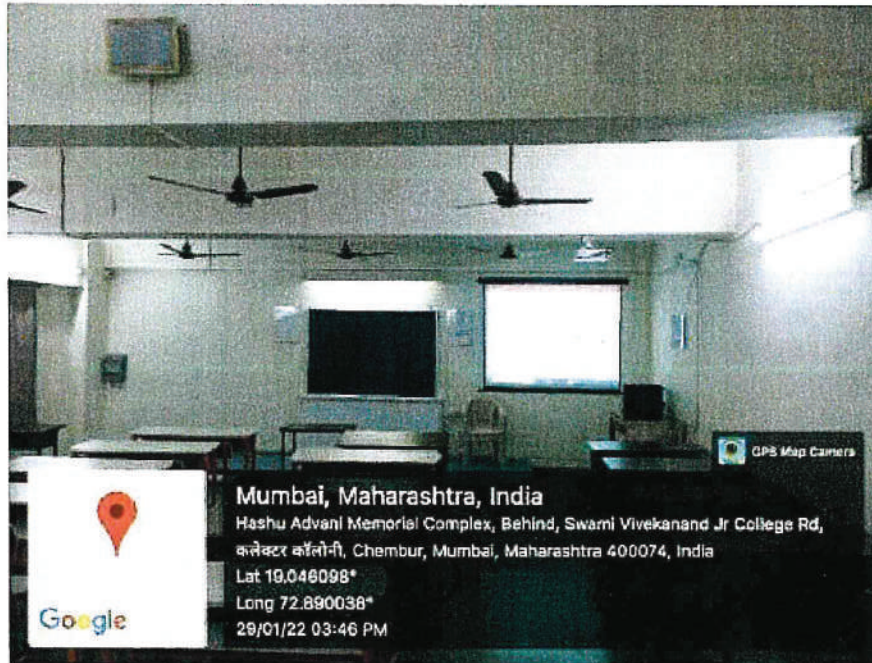




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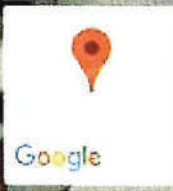
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Long 72.890038°  
29/01/22 03:46 PM

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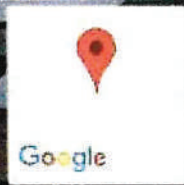
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28/01/22 04:31 PM

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Long 72.889929°  
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## Geo tagged photos of Wi-Fi- Routers



Wi-fi Router at Ground Floor



Wi-fi Router at Office Ground Floor



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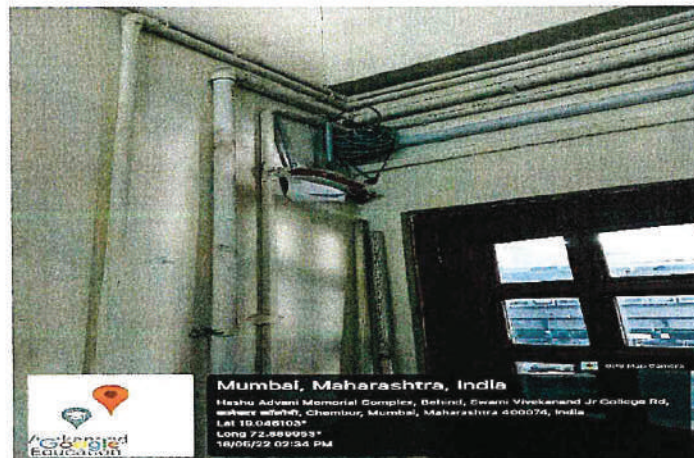




Wi-fi Router at First Floor corridor



Wi-fi Router at First Floor Lab



Wi-fi Router at First Floor Lab

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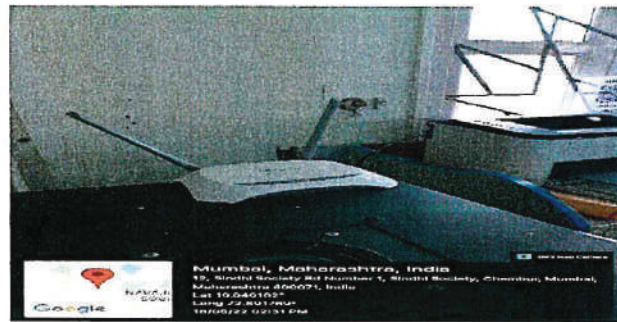


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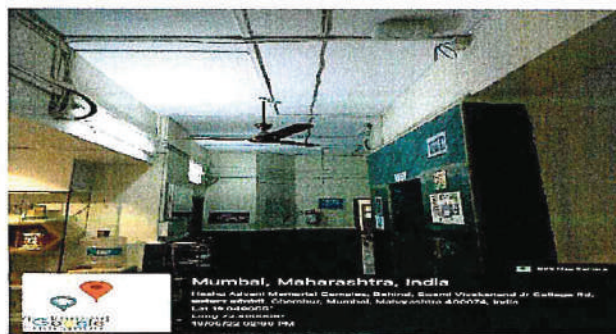
**Wi-fi Router at Second Floor Seminar Hall**



**Wi-fi Router at Second Floor Computer Lab**



**Wi-fi Router at Second Floor Board Room**



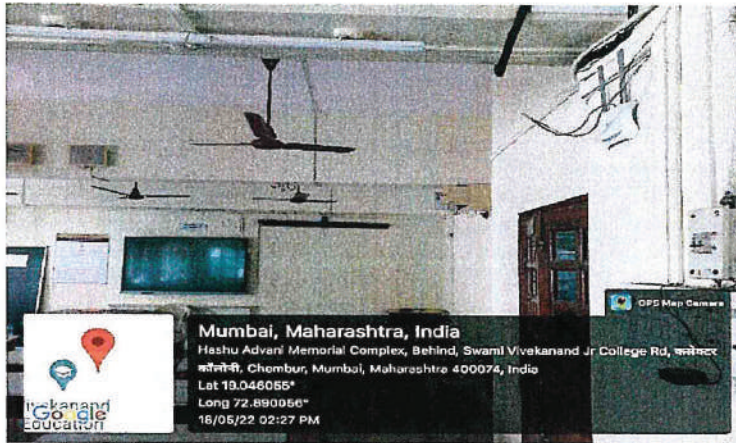
**Wi-fi Router at Second Floor corridor**

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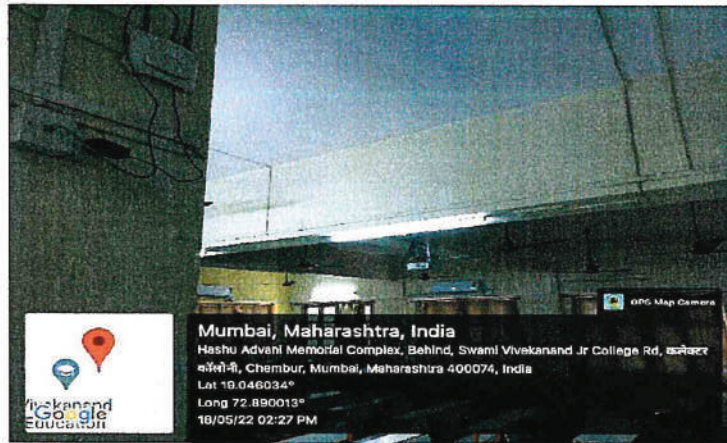
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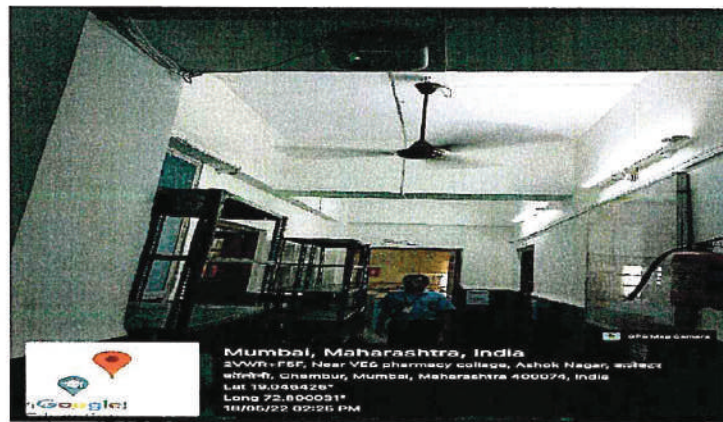




**Wi-fi Router at Third Floor Classroom**



**Wi-fi Router at Third Floor Classroom**



**Wi-fi Router at Third Floor corridor**

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Wi-fi Router at Forth Floor Lab



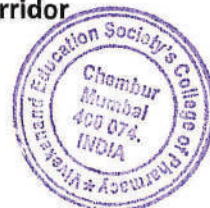
Wi-fi Router at Forth Floor Lab

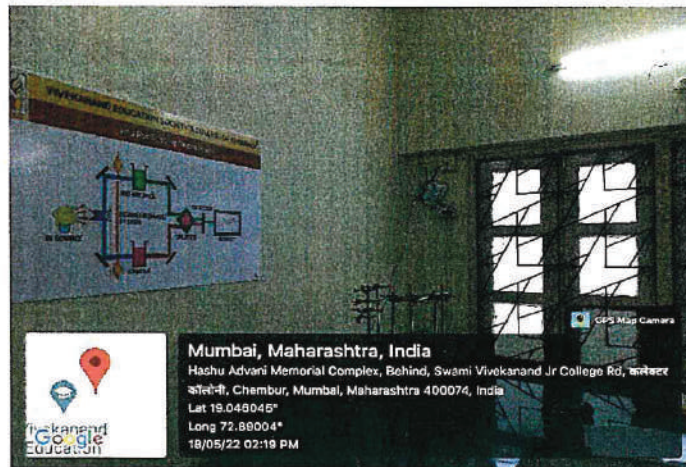


Wi-fi Router at Forth Floor corridor

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**Wi-fi Router at Fifth Floor Lab**



**Wi-fi Router at Fifth Floor Library**



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Wi-fi Router at Sixth Floor Faculty Room



Wi-fi Router at Sixth Floor corridor



Wi-fi Router at Sixth Floor Lab

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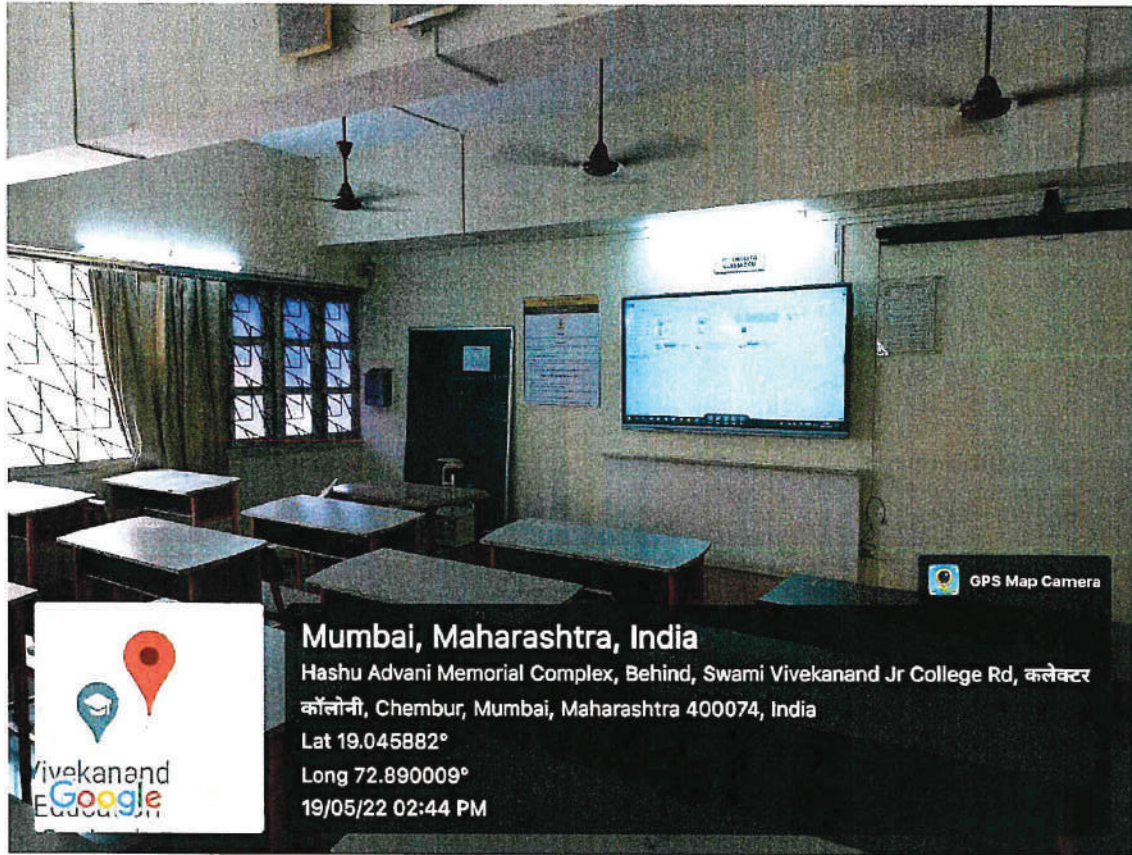




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Geotag photos of classroom and smart classroom with ICT enabled facilities



**Classroom 1, Third Floor**  
ICT Facilities: Wi-Fi/LAN, Smart Board

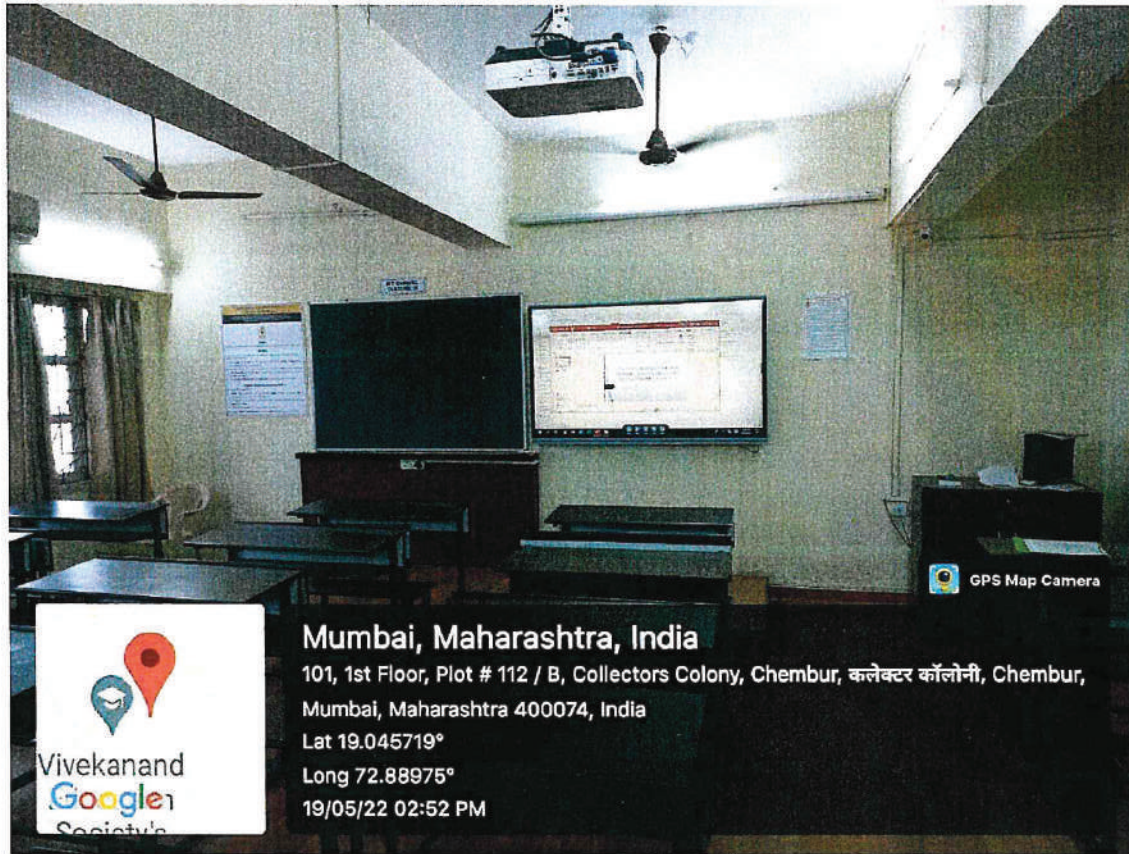


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Geotag photos of classroom and smart classroom with ICT enabled facilities



**Classroom 8, Seventh Floor**  
ICT Facilities: Wi-Fi/LAN, Smart Board



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ICT incharge*

*HS*  
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20



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★	📄	👤	📄	📅	📅	📄
All Documents	Authors	Title	Year	Published In	Added	
📄	Juang, Lih-Jeng; Sheu, Shuenn-Jyi; Lin, Ta-Chen	Determination of hydrolyzable tannins in the fruit of Terminalia chebula Retz. by high-performance liquid chromatography and capilla...	2004	Journal of Separation Sci...	16-Dec-21	
📄	Gupta et al	Pharmacological Aspects of Terminalia bellerica	2017	Mol. Biol. and Pharm. of Benef...	15-Dec-21	
📄	Kulkarni, Yogesh Anant; Veeranjanyulu, Addepalli	Effects of emelina arborea extract on experimentally induced diabetes	2013	Asian Pacific Journal of Tropi...	15-Dec-21	
📄	Chattopadhyay, R R; Bhattacharyya, S K	Plant Review Terminalia chebula: An update	2007	Pharmacognosy Reviews	15-Dec-21	
📄	Hopper, Waheeta; Kannan, P; ...; SR Ramadevi - African; Z...	Antibacterial activity of Terminalia chebula fruit extract	2009	African Journal of Microbiology Re...	15-Dec-21	
📄	Peterson, Christine Tara; Denniston, Kate; Chopra, De...	Therapeutic Uses of Triphala in Ayurvedic Medicine	2017	The Journal of Alternative and ...	15-Dec-21	
📄	Zhang, Xiao-Rui Rui; Kaunda, Joseph Sakah; Zhu, Hong-Ta...	The Genus Terminalia (Combretaceae): An Ethnopharmacological, Phytochemical and Pharmacological ...	2019	Natural Products and Bioprospect...	15-Dec-21	
📄	International Diabetes Federation	IDF Framework for Action on Sugar	2015	International Diabetes Feder...	15-Dec-21	
📄	Tate, A. Rosemary	Type 2 diabetes	2018	The Lancet	15-Dec-21	
📄	Grover, I. S.; Bala, S.	Antimutagenic activity of Terminalia chebula (myroblan) in Salmonella typhimurium.	1992	Indian journal of experimental bi...	15-Dec-21	
📄	Chang, Chia Lin; Lin, Che San	Phytochemical composition, antioxidant activity, and neuroprotective effect of Terminalia chebula Retz extract	2012	Evidence-based Complementary ...	15-Dec-21	
📄	Tsai, K.; Wang, S S; Chen, T S; Kong, C W; Chang, F Y; L...	Oxidative stress: An important phenomenon with pathogenetic significance in the progression of acute pancr...	1998	Gut	10-Dec-21	
📄	Paoletti, Francesco; Mocali, Alessandro; Aldinucci, Donat...	Superoxide-driven NAD(P)H oxidation induced by EDTA-manganese complex and mercaptoethanol	1990	Chemico-Biological Interactions	10-Dec-21	
📄	Elman, George L.	Tissue sulfhydryl groups	1959	Archives of Biochemistry an...	10-Dec-21	
📄	Murata, Mariko; Takahashi, Ayako; Saito, Isao; Kawano...	Site-specific DNA methylation and apoptosis: Induction by diabetogenic streptozotocin	1999	Biochemical Pharmacology	10-Dec-21	
📄	Reaven, G. M.	Insulin resistance, hyperinsulinemia, hypertriglyceridemia, and hypertension: Parallels between human disease and ro...	1991	Diabetes Care	10-Dec-21	
📄	Mohamed, Jamaludin; Maccabun, Mufash, A. H., Z...	Mechanisms of diabetes-induced liver damage: The role of oxidative stress and inflammation	2016	Sultan Qaboos Medical	10-Dec-21	

Details Notes Contents

Type: Journal Article

**Determination of hydrolyzable tannins in the fruit of Terminalia chebula Retz. by high-performance liquid chromatography and capilla...**

Authors: L. Juang, S. Sheu, T. Lin

View research catalog entry for this paper

Journal: *Journal of Separation Science*

Year: 2004

Volume: 27

Issue: 9

Pages: 718-724

**Abstract:**  
 A RP-HPLC method for determining fourteen components (gallic acid, chebulic acid, 1,6-di-O-galloyl-D-glucose, punicalagin, 3,4,6-tri-O-galloyl-D-glucose, casuarinin, chebulanin, corilagin, neochebulinic acid, terchebulin, ellagic acid, chebulagic acid, chebulonic acid, and 1,2,3,4,6-penta-O-galloyl-D-glucose) in the fruit of Terminalia chebula Retz. is described. The separation was achieved within 80 min using a binary gradient with mobile phases consisting of a pH 2.7 phosphoric acid solution and an 80% CH<sub>3</sub>CN solution. Capillary electrophoretic analyses were also attempted, and it was found that CZE (25 mM Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub>, 5 mM NaH<sub>2</sub>PO<sub>4</sub>, pH 7.0) was an efficient method for the separation of galloannins, while an MEKC method (25 ...





ACD/ChemSketch (Freeware) - [noname01.sk2]

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Structure Draw View Edit Build Properties

mm 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210

1-Bu i-Pr COCH<sub>3</sub> COOH COPh NO<sub>2</sub> OAc SO<sub>3</sub>H PO<sub>3</sub>H<sub>2</sub>

Dec 2 12:10 The Basics of Interpreting a Proton (1H) NMR Spectrum Nov 18 07:30 4 Questions You Should Ask Before Entering into a Software Pilot Nov 4 12:12 Your Data Deserves Better than Excel—7 Ways Spreadsheets Hold Back PI Setup RSS

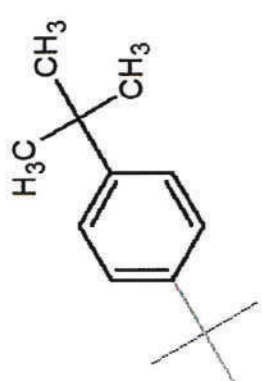
NONAME01.SK2 Modified 4/1 Page 1/1 Fragments: 1 C<sub>10</sub>H<sub>14</sub> FW: 134.21816

1-ChemSketch 2-Database 3-I-Lab

More...

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12:48 17-05-2022



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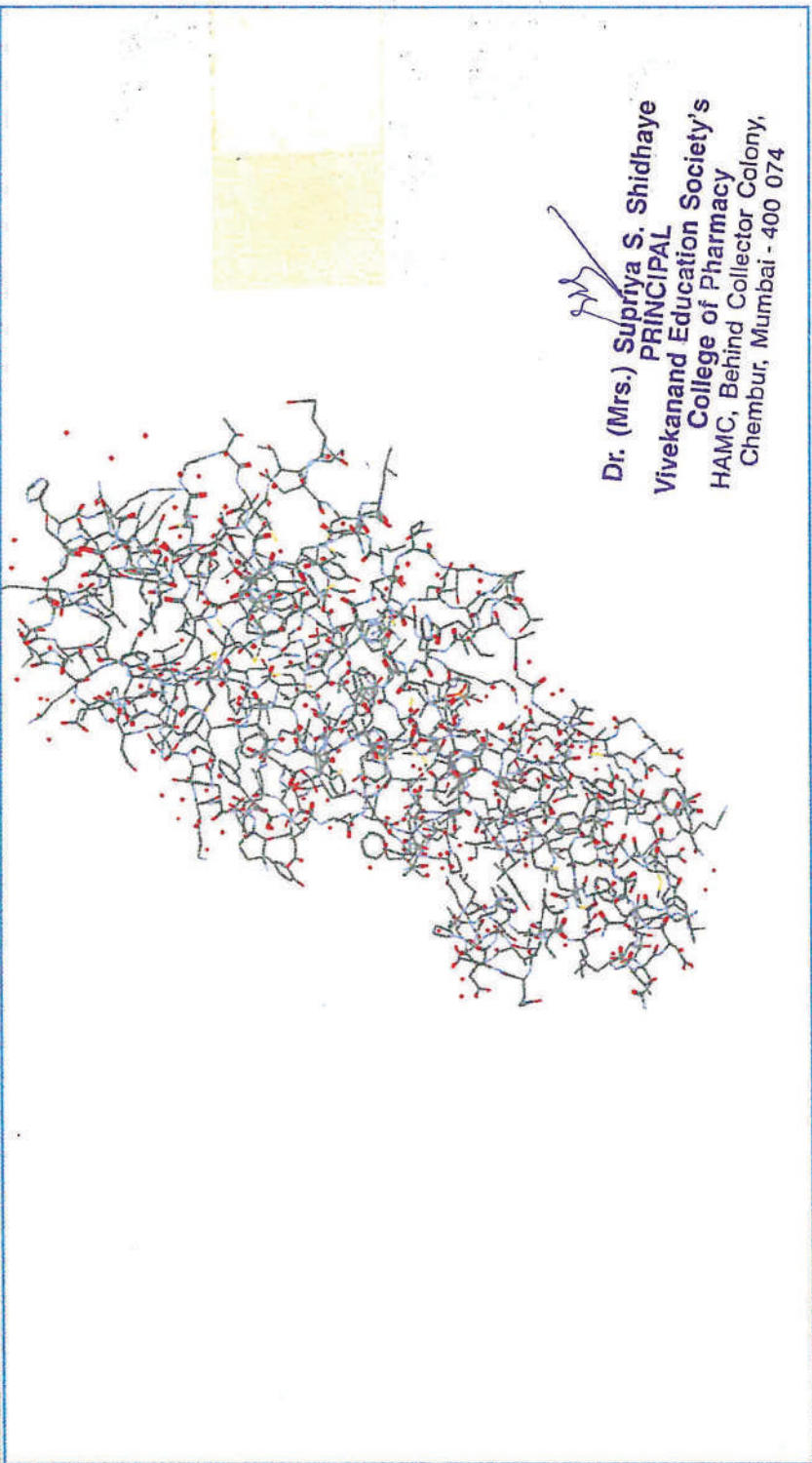
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**Dr. Mushtaqe Shaikh**

22









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```

File Edit Build Movie Display Setting Scene Mouse Wizard Plugin Help
TITLE Crystal Structure of Falcipain-3 with Its inhibitor, Leupeptin
ExecutiveLoad-Detail: Detected mmcif
Cmdload: loaded as "3BPM"
You clicked /3BPM/A/VAL^80/CA
Selector: selection "sele" defined with 7 atoms.
License Expiry date: 01-dec-2022
Setting: opaque_background set to on.
PyMOL>space cmyk
Color: loaded table 'C:\ProgramData\PyMOL\share\pymol\data\pymol\cmyk.png'.
Setting: grid_mode set to 1.
No key mapping for 'CTRL-D'

```

PyMOL>

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|< < Stop Play > | MClear  
Builder Properties Rebuild

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Mouse Mode 3-Button Viewing  
Buttons L M R Wheel  
& Keys Rotate Move MovZ Slab  
Shift Box Box Clip MovS  
Ctrl Move PKat PKI MovZ  
Ctsh Sele Orig Clip MovZ  
SnapClick +/- Cent Menu  
DbClick Menu - PKat  
Selecting Residues  
State 1/1

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17-05-2022  
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**Dr. M. Shidhaye Shinde**



- Axes
  - Ball and Stick
  - Cartoon
  - Dipole
  - Force
  - Hydrogen Bond
- Add Duplicate Remove

AutoOptimization Settings

Force Field: UFF

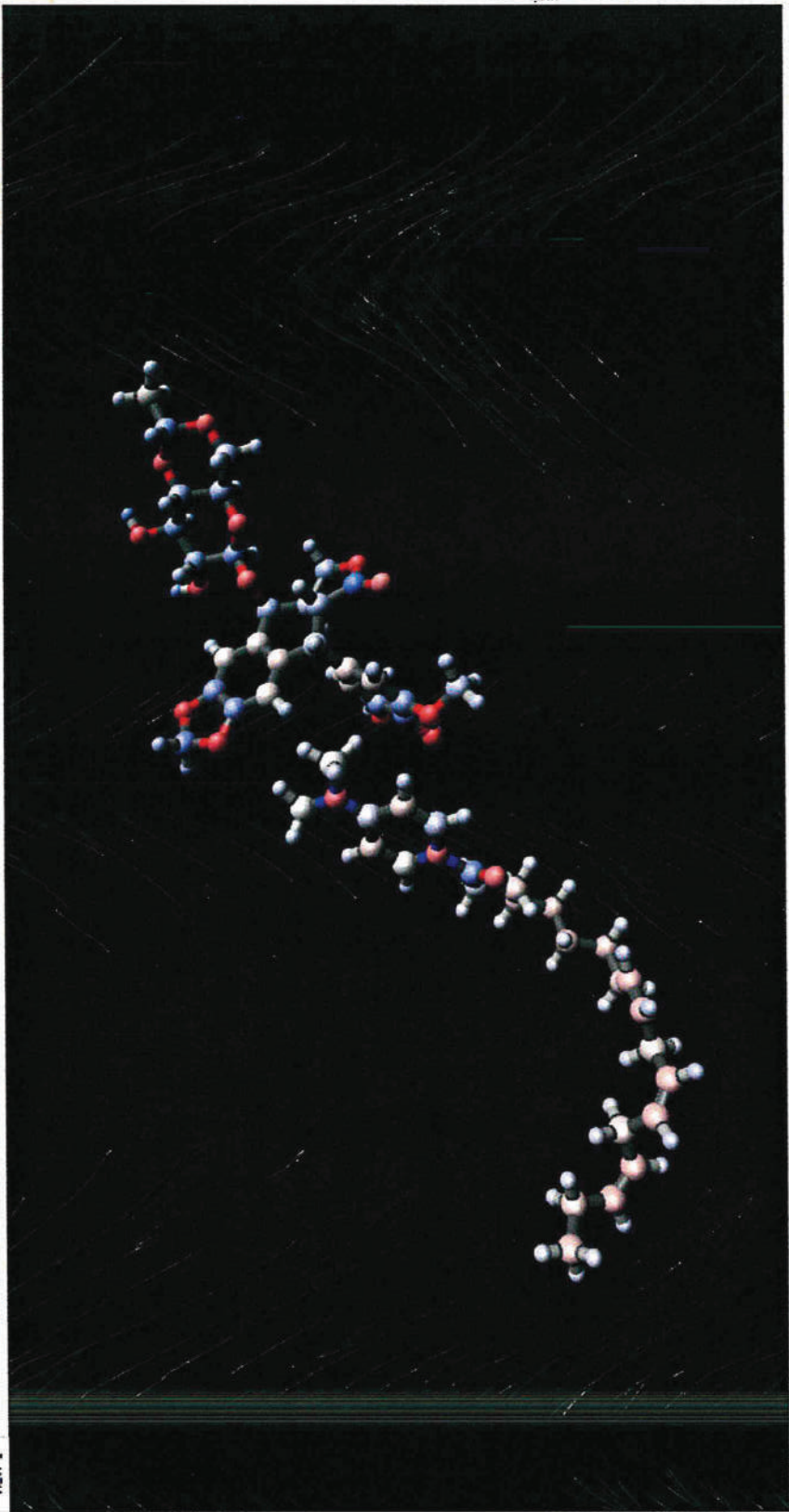
Steps per Update: 4

Algorithm: Steepest Descent

Fixed atoms are movable

Ignored atoms are movable

Start



Messages



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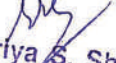
```
#####
# If you used AutoDock Vina in your work, please cite:      #
#                                                            #
# O. Trott, A. J. Olson,                                     #
# AutoDock Vina: improving the speed and accuracy of docking #
# with a new scoring function, efficient optimization and    #
# multithreading, Journal of Computational Chemistry 31 (2010) #
# 455-461                                                    #
#                                                            #
# DOI 10.1002/jcc.21334                                     #
#                                                            #
# Please see http://vina.scripps.edu for more information.   #
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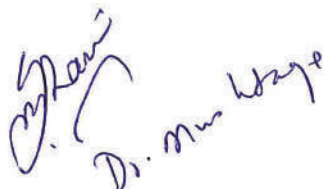
```
Detected 4 CPUs
Reading input ... done.
Setting up the scoring function ... done.
Analyzing the binding site ... done.
Using random seed: -1670943472
Performing search ... done.
Refining results ... done.
```

mode	affinity (kcal/mol)	dist from best mode rmsd l.b.	rmsd u.b.
1	-6.6	0.000	0.000
2	-6.5	4.922	8.204
3	-6.5	5.405	6.271
4	-6.4	5.274	7.021
5	-6.3	30.942	31.883
6	-6.3	10.545	11.895
7	-6.3	0.831	1.784
8	-6.2	2.869	8.985
9	-6.1	1.890	2.087
10	-6.1	4.498	5.409

Writing output ... done.



  
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 Dr. Manoj Wagle



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--- An Ab Initio, DFT and Semiempirical electronic  
structure package ---

```
#####  
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#                                     Department of theory and  
spectroscopy #  
#                                     Directorship: Frank Neese  
#  
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#                                     Germany  
#  
#                                     All rights reserved  
#                                     -***-  
#  
#####
```

Program Version 4.2.1 - RELEASE -

With contributions from (in alphabetic order):  
Daniel Aravena : Magnetic Suceptibility  
Michael Atanasov : Ab Initio Ligand Field Theory  
(pilot matlab implementation)  
Alexander A. Auer : GIAO ZORA, VPT2  
Ute Becker : Parallelization  
Giovanni Bistoni : ED, misc. LED, open-shell LED,  
HFLD  
Martin Brehm : Molecular dynamics  
Dmytro Bykov : SCF Hessian  
Vijay G. Chilkuri : MRCI spin determinant printing,  
contributions to CSF-ICE  
Dipayan Datta : RHF DLPNO-CCSD density  
Achintya Kumar Dutta : EOM-CC, STEOM-CC  
Dmitry Ganyushin : Spin-Orbit, Spin-Spin, Magnetic  
field MRCI  
Miquel Garcia : C-PCM Hessian, Gaussian charge  
scheme  
Yang Guo : DLPNO-NEVPT2, CIM, IAO-  
localization



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Andreas Hansen : Spin unrestricted coupled  
 pair/coupled cluster methods  
 Benjamin Helmich-Paris : CASSCF linear response (MC-RPA)  
 Lee Huntington : MR-EOM, pCC  
 Robert Izsak : Overlap fitted RIJCOSX, COSX-SCS-  
 MP3, EOM  
 Christian Kollmar : KDIIS, OOOD, Brueckner-CCSD(T),  
 CCSD density  
 Simone Kossmann : Meta GGA functionals, TD-DFT  
 gradient, OOMP2, MP2 Hessian  
 Martin Krupicka : AUTO-CI  
 Lucas Lang : DCDCAS  
 Dagmar Lenk : GEPOl surface, SMD  
 Dimitrios Liakos : Extrapolation schemes; Compound  
 Job, initial MDCI parallelization  
 Dimitrios Manganas : Further ROCIS development;  
 embedding schemes  
 Dimitrios Pantazis : SARC Basis sets  
 Taras Petrenko : DFT Hessian, TD-DFT gradient, ASA,  
 ECA, R-Raman, ABS, FL, XAS/XES, NRVS  
 Peter Pinski : DLPNO-MP2, DLPNO-MP2 Gradient  
 Christoph Reimann : Effective Core Potentials  
 Marius Retegan : Local ZFS, SOC  
 Christoph Riplinger : Optimizer, TS searches, QM/MM,  
 DLPNO-CCSD(T), (RO)-DLPNO pert. Triples  
 Tobias Risthaus : Range-separated hybrids, TD-DFT  
 gradient, RPA, STAB  
 Michael Roemelt : Original ROCIS implementation  
 Masaaki Saitow : Open-shell DLPNO-CCSD energy and  
 density  
 Barbara Sandhoefer : DKH picture change effects  
 Avijit Sen : IP-ROCIS  
 Kantharuban Sivalingam : CASSCF convergence, NEVPT2, FIC-  
 MRCI  
 Bernardo de Souza : ESD, SOC TD-DFT  
 Georgi Stoychev : AutoAux, RI-MP2 NMR  
 Willem Van den Heuvel : Paramagnetic NMR  
 Boris Wezislá : Elementary symmetry handling  
 Frank Wennmohs : Technical directorship

We gratefully acknowledge several colleagues who have allowed us to

interface, adapt or use parts of their codes:

Stefan Grimme, W. Hujo, H. Kruse, : VdW  
 corrections, initial TS optimization,  
 C. Bannwarth : DFT  
 functionals, gCP, sTDA/sTD-DF  
 Ed Valeev, F. Pavosevic, A. Kumar : LibInt (2-  
 el integral package), F12 methods  
 Garnet Chan, S. Sharma, J. Yang, R. Olivares : DMRG  
 Ulf Ekstrom : XCFun DFT  
 Library  
 Mihaly Kallay : mrcc  
 (arbitrary order and MRCC methods)  
 Andreas Klamt, Michael Diedenhofen : otool\_cosmo  
 (COSMO solvation model)

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# Virtual Lab Ex-Pharm Series/Ex-Physio Series Software

## Study of muscle relaxant activity with the help of "Rota-Rod Apparatus"

- Rota Rod
- Rota rod Virtual Practice

VIRTUAL LAB



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*Supriya S. Shidhaye*





*	Study of muscle relaxant activity with the help of "Rota-Rod Apparatus"	▶
*	Study of cns depressants & stimulants using "actophotometer".	▶
*	Study of analgesic activity with the help of "tail flick apparatus".	▶
*	Study of antihistaminic drugs with the help of histamin chamber.	▶
*	Study of analgesic activity with the help of "hot plate apparatus".	▶
*	Study of drugs acting on cns using "elevated plus maze".	▶
*	Study of anticonvulsant activity using "electro convulsimeter".	▶
*	Experiment on effects of various drugs on rabbit's eye.	▶

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**EFFECT OF CNS SUPPRESSANT AND SKELATEL MUSCLE RELAXANT DRUG ON MICE USING ROTAROD APPARATUS**

Introduction Experiment Observation

**Equipment**



*Asmita*

*MS*  
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Rotarod apparatus has a horizontal grooved rod rotating at a fixed speed. The mice are made to balance on this rod. Dependent upon their motor co-ordination. Central nervous activity and grip strength the animal either stay on the rotating rod for specific time and after that fall down on the platform of each compartment. The floor of each compartment has sensors that deactivate the timers and the exact fall off time for each rat is displayed on the respective display.

Equipment Principle

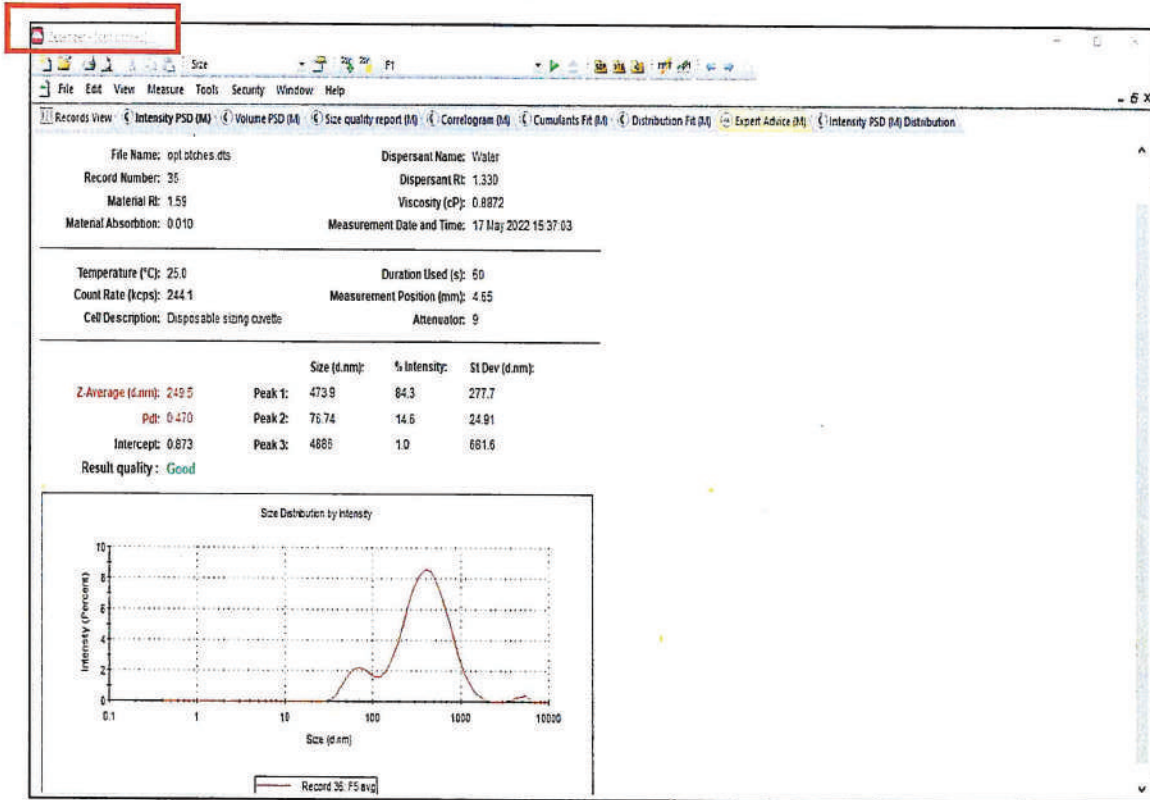




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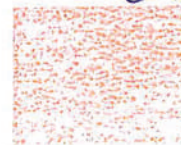
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1. **Equipment:** Malvern Zetasizer  
**Software:** Zetasizer Solution



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Anita Ayre  
C.I.L I/c

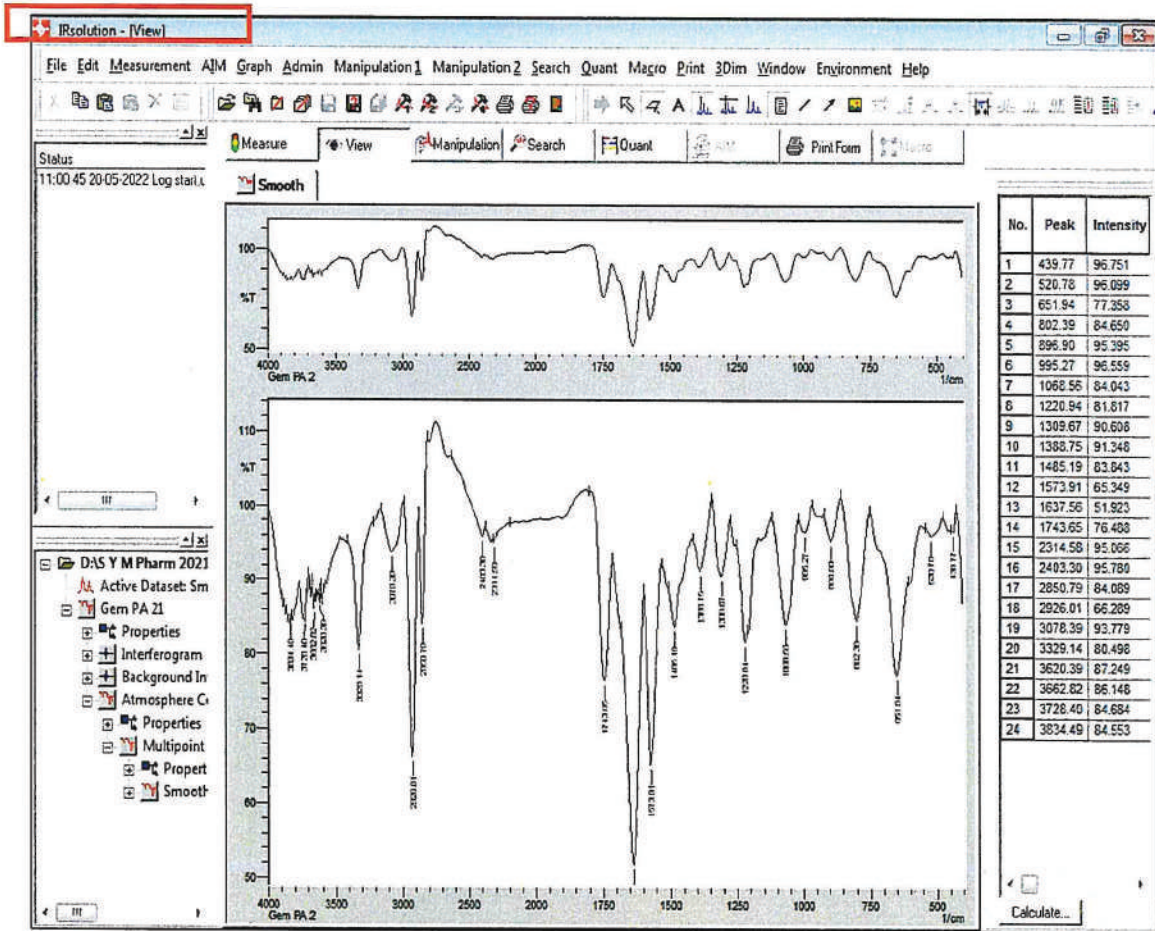


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**2. Equipment:** Fourier Transform Infrared Spectrophotometer  
**Software:** IR solution



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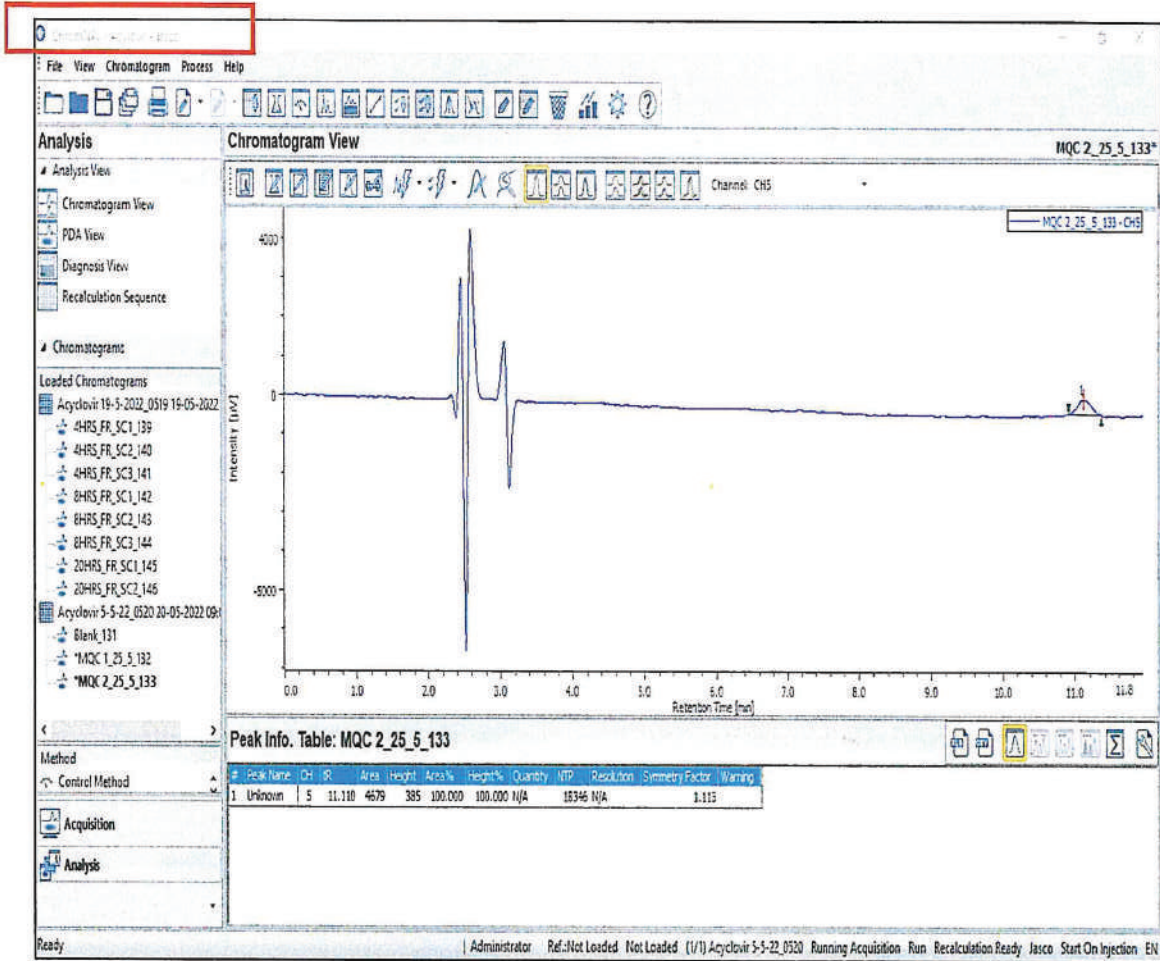
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**Amrta Ayre**  
 C.I.L F/C



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3. Equipment: High Performance Liquid Chromatography  
Software: Chromnav



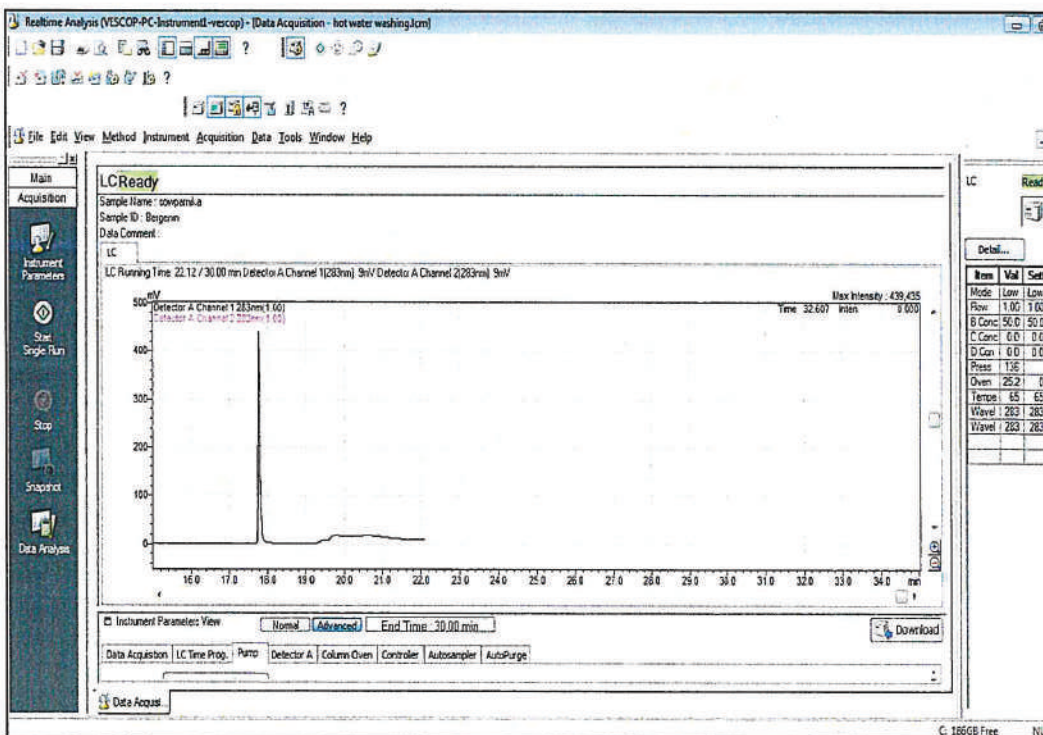
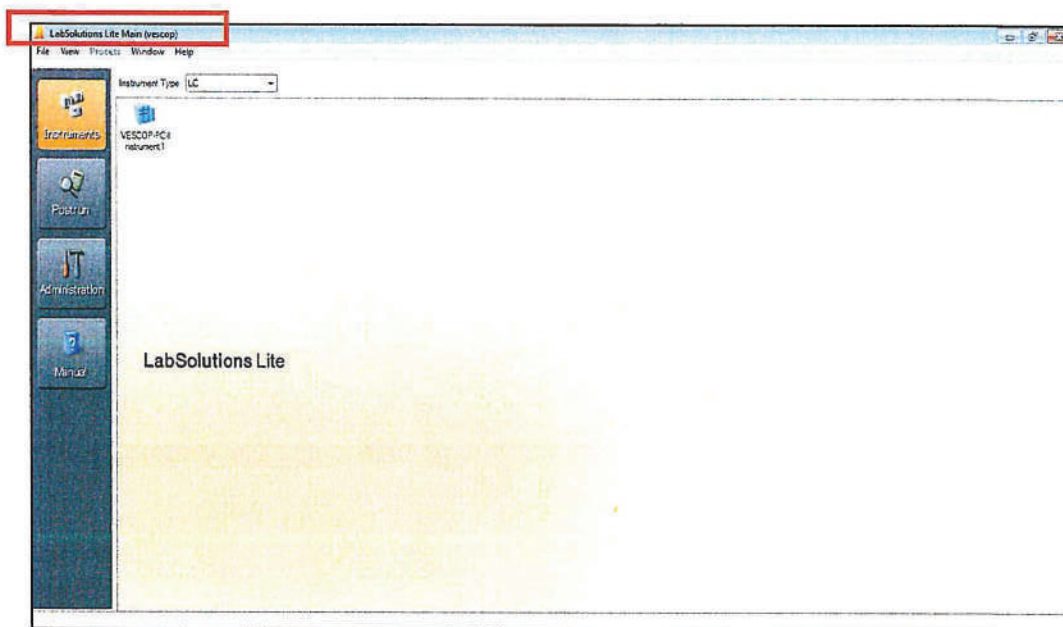
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4. **Equipment:** High Performance Liquid Chromatography  
**Software:** LabSolution



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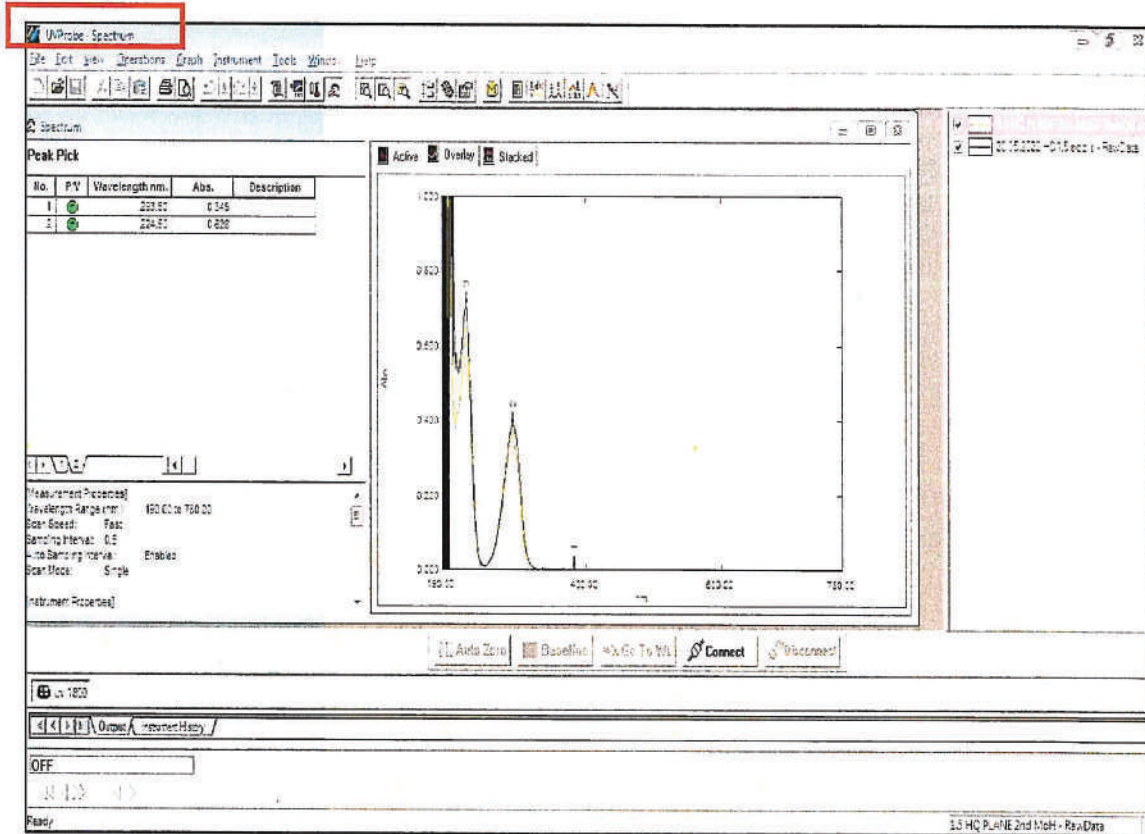



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5. Equipment name: UV-vis spectrophotometer

Software: UV Probe



  
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PAGE 43




**PERICYCLIC CHEMISTRY**  
Dr. Anand KS Chintakrindi

### Definition

- A pericyclic reaction is one that occurs by a concerted process through a cyclic transition state.
- A concerted reaction is one in which all bonding changes occur simultaneously; no intermediates are involved.
- Three main classes of pericyclic reactions: electrocyclic reactions, cycloadditions, and sigmatropic rearrangements.

### Wave Equations

- Electrons show properties not only of particles but also of waves



- The vertical displacement the amplitude of the wave increases in one direction, passes through a maximum, decreases to zero, and then increases in the opposite direction. The places where the amplitude is zero are called nodes.

1

2

3

### Wave Equations

- Displacement upward and displacement downward correspond to opposite phase of the wave.
- To distinguish between phases, we arbitrarily assign algebraic signs to the amplitude, plus for, say, displacement upward, and minus for displacement downward.

### Wave Equations

- The differential equation that describes the wave is a wave equation.
- Solution of this equation gives the amplitude,  $\psi$ , as a function,  $f(x)$ , of the distance,  $x$ , along the wave. Such a function is a wave function.

### Wave Functions

- Electron waves are described by a wave equation of the same general form as that for string waves
- The wave functions that are acceptable solutions to this equation again give the amplitude,  $\psi$ , this time as a function, not of a single coordinate, but of the three coordinates ( $x, y, z$ ) necessary to describe position in three dimensions.
- It is these electron wave functions that we call orbitals


4

5

6


### Wave Functions

- Like a string wave, an electron wave can have nodes, where the amplitude is zero.
- On opposite sides of a node the amplitude has opposite signs, that is, the wave is of opposite phases




### Orbitals

- Between the two lobes of a p orbital lies a nodal plane, perpendicular to the axis of the orbital
- The two lobes are of opposite phase, and this is often indicated by + and - signs; do not have anything to do with charge.
- They simply indicate that the amplitude is of opposite algebraic sign in the two lobes



### Molecular Orbitals (MO)

- As atomic orbitals (AOs) are wavefunctions, they can be combined in the same way that waves combine.



7

8



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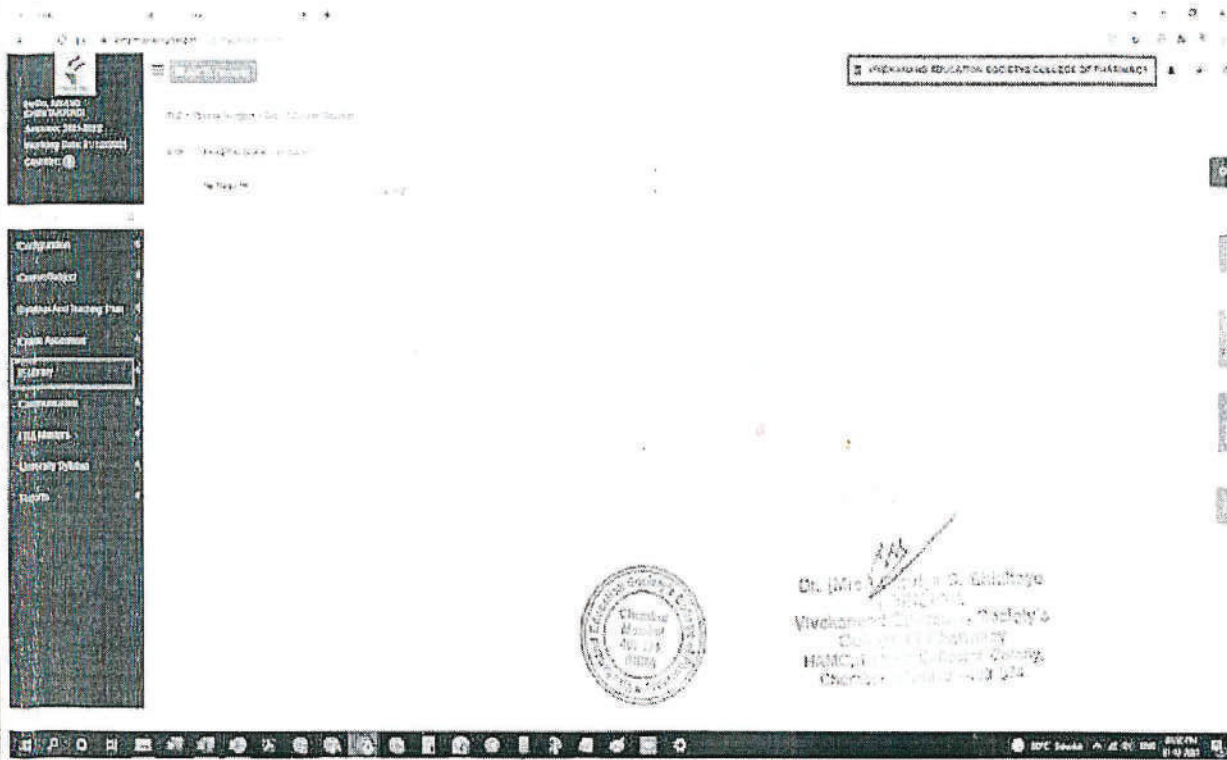




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	<b>MasterSoft</b> ERP Solutions Pvt.Ltd. Accelerating education	1456-A, New Nandanvan Nagar-440029 MS India Phone-0712-2716900 2716909 Fax 0712-2713710 Email:sales@qtras.co.in Web Site www.qlms.co.in
Receipt No. : 13861200		Date : 31 Dec 2021
<b>Received with thanks from</b> THE PRINCIPAL, V. E. S. COLLEGE OF PHARMACY MUMBAI, HASHU ADVANI MEMORIAL COMPLEX, BEHIND COLLECTORS COLONY, WADHWALL VILLAGE, CHEMBUR, MUMBAI - 400074		
the sum of Rs. Rupees <u>One Lakhs Thirty-Eight Thousand Six Hundred Twelve Only</u>		
in Cash/D.D/Cheque No. RTGS/NEFT/IMPS/CASH		Dated : 31-12-2021
drawn on HDFC BANK OD A/C 50200056995017		against Invoice No.
For MasterSoft ERP Solutions Pvt.Ltd.		
<b>Rs.</b> 1,38,612.00		Authorized Signature:

This is a computer generated receipt. No need for any signature.

  
Dr. (Mrs.) Supriya S. Shidhaye  
PRINCIPAL  
Vivekanand Education Society's  
College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

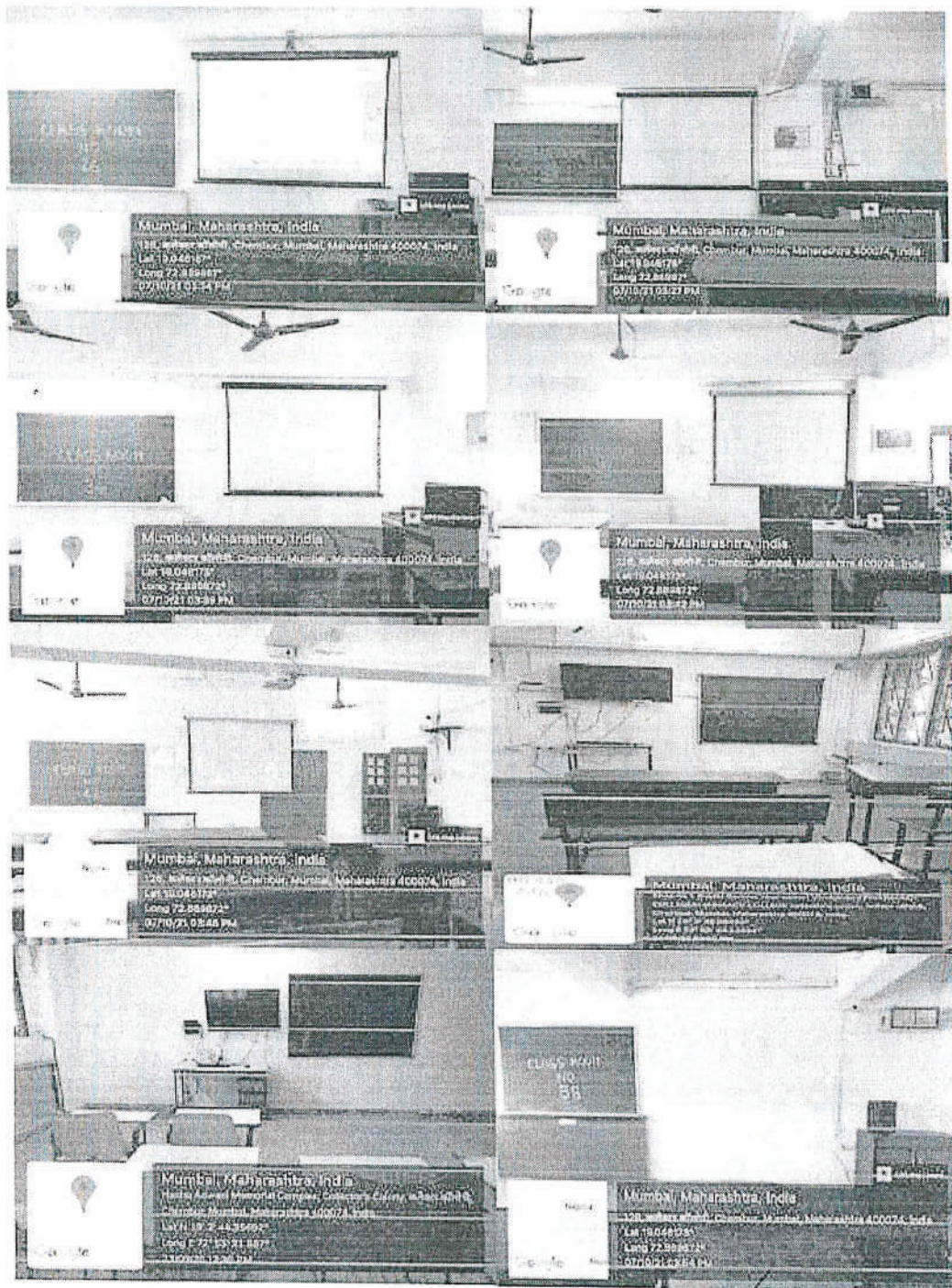




# VES COLLEGE OF PHARMACY

Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E), Mumbai - 400 074

## Geotagged Photos of ICT facilities



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Vivekanand Education Society's  
College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074.