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## Savitribai Phule Pune University

### Annual Report Information 2021-2022

#### Planning and Development

#### College Details

1. **Name Of the Department/College/Institute** : Mumbai Educational Trust  
MET Institute of Pharmacy  
Addr: Bhujbal Knowledge City Adgav Ta: Nashik Dist: Nashik
2. **Address Of the Department/College/Institute** : Bhujbal Knowledge City Adgav Ta: Nashik Dist: Nashik Pincode: 422003
3. **Name Of the Head/Principal/Director** : Sanjay Jayprakash Kshirsagar
4. **Tele (O/R) With STD Code/Mobile No., Fax No, Email Address and Website Address** : Tele.- 0253-2555860 Email- principal\_iop@bke.met.edu URL- www.metbhujbalknowledgcity.ac.in

#### 5. Reference Books/Monographs Published by Teacher (2021-2022) :

Sr. No.	Name of the Teacher(s)/Author	Title of the Reference Books/Monographs	Name and Place of Publisher(s)	Date of Publication	Isbn/Issn No.
1	Ahirrao Sapana Prabhakar	Pharma Marketing Management	Bhumi Publishing	2021	978-93-91768-42-3 /
2	Bhambere Deepak Sunil	Pharma Marketing Management	Bhumi Publication	2021	978-93-91768-42-3 / 978-93-91768-42-3
3	Khairnar Shubham Jagdish	A Textbook of Pharmacy Practice.	Prime Publication	2022	978-9395596-05-3 / 978-9395596-05-3
4	Khairnar Shubham Jagdish	Textbook of Pharmacology III	Prime Publication	2022	978-93-95596-01-5 / -
5	Kshirsagar Sanjay Jayprakash	Applied Biostatistics: An essential tool in health care profession.	Bhumi	2021	978-81-953600-1-7 / -
6	Kankate Rani Shantaram	Pharma Marketing Management (As per PCI Syllabus)	Bhumi Publishing	2021	978-93-91768-42-3 / 00
7	Tajanpure Anjali Baburao	PHARMACOLOGICAL SCREENING METHODS	TECHNICAL PUBLICATION	2022	9789391567934 /
8	Sonawane Sandeep S, Shelke Rakesh U, Kshirsagar Sanjay J	Pharmaceutical Analysis	Technical Publications	2021	978-93-90450-09-1 / 978-93-90450-09-1
9	Kshirsagar Sanjay Jayprakash	Ocular in situ gel: a novel approach for better patient compliance	Bhumi	2021	978-81-951982-4-5 / -
10	Kshirsagar Sanjay Jayprakash	Exploring the use of marine products in the management of Non-Communicable Diseases Cancer	Bhumi	2021	978-81-951982-1-4 / -
11	Kshirsagar Sanjay Jayprakash	Current management strategies of COVID-19	Bhumi	2021	978-81-953600-9-3 / -
12	Ahire Eknath Damu	Informatics and Methods in Nutrition Design and Development	Apple Academic Press	2021	9781003144748 / 9781003144748

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13	Ahire Eknath Damu	Drug Discovery, Drug-Likeness Screening, and Bioavailability: Development of Drug-Likeness Rule for Natural Products	Apple Academic Press	2021	9781003054894 / 9781003054894
14	Ahire Eknath Damu	Biomolecular and Molecular Docking: A Modern Tool in Drug Discovery and Virtual Screening of Natural Products	Apple Academic Press	2021	9781003054894 / 9781003054894
15	Ahire Eknath Damu	Molecular Modeling: Novel Techniques in Food and Nutrition Development	CRC Press	2021	9781003144748 / 9781003144748

**6. No. of Conference, Symposia, Seminars, Workshops etc. Organized (2021-2022)**

Sr. No.	No. of State Level	No. of National Level	No. of International Level
1	3	7	0

**7. Research Publications in National and International Journals/Edited Books/Proceedings (2021-2022)**

Sr. No.	Name of the Teacher's/Author	Title of the Paper	Name of the Journal/Proceeding/Edited Book	Volume & Pages	Year of Publication	ISBN/ISSN No.
1	Kakad Smita Prakash	Development of Reverse Phase-High Performance Liquid Chromatographic Method for the Estimation of HIV-Non-Nucleoside Reverse Transcriptase Inhibitor Drug Efavirenz in the Rat Brain.	Future Journal of Pharmaceutical Sciences.	11 & 7	2021	0 / 2314-7253
2	Kakad Smita Prakash	FORMULATION AND OPTIMIZATION OF RITONAVIR NASAL NANOSUSPENSION FOR BRAIN TARGETING	Indian drug	58 & 10	2021	0 / 0019-462X
3	Sable Rahul Ramakant	Protective effect of beta carotene and turmeric extract against alloxan generated oxidative stress induced diabetes.	Journal of Seybold Report	15 & 1218	2021	IN-Mah / 1533-9211



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4	Kankate Rani Shantaram	Protective Effects of Diets Rich in Polyphenols in Cigarette Smoke (CS)-Induced Oxidative Damages and Associated Health Implications	Antioxidants	11 & 12:7	2022	0 / 2076-3921
5	Jadhav Abhish Bhagwan	Formulation and Evaluation of Thermos-Sensitive Ophthalmic In-Situ Gel Of Timolol Maleate and Brimonidine Tartarate.	PENSEE	51 & 1364	2021	0031-4773 / 0031-4773
6	Jadhav Abhish Bhagwan	Artificial Intelligence: Introduction and Scope in Healthcare Sector	International Journal of Science and Research (IJSR)	9 & 5	2021	2319-7064 / 2319-7064
7	Tajanpure Anjali Baburao	Liriodendrin, ameliorates hypertension by calcium channel blockade and enhancing enos expression in wistar rats	CARDIOMETRY	1 & 9	2021	2304-7232 / 2304-7232
8	Laddha Umesh Dilip	Atorvastatin ascorbic acid cocrystal strategy to improve the safety and efficacy of atorvastatin	Pharmacia	69 & 10	2022	NA / 04280296
9	Laddha Umesh Dilip	Repurposing of phytomedicine-derived bioactive compounds with promising anti-SARS-CoV-2 potential: Molecular docking, MD simulation and drug-likeness/ADMET studies	Saudi Journal of Biological Sciences	29 & 10	2022	NA / 1319-562X
10	Laddha Umesh Dilip	Bridging Pharmaceutical Analysis with Computational Chemistry to Ascertain the Pharmacokinetic and Toxicological Profiling of Febuxostat and its Diacid Impurity	Analytical Chemistry Letters	12 & 11	2022	NA / 2229-7928



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11	Sonawane Sandeep Suresh	nostructured lipid carriers gel using central composite design: In-vitro and Ex-vivo evaluation	Nanoscience & Nanotechnology-Asia	11 & 132	2021	2210-6812 / 2210-6812
12	Sonawane Sandeep Suresh	Development of a validated stability-indicating method for estimation of ethionamide tablets by RP-HPLC and characterization of its isolated alkali degradation product	Indian Drugs	58 & 20	2021	0019-462X / 0019-462X
13	Sonawane Sandeep Suresh	Development and validation of HPLC method for estimation of seratrodast in spiked human plasma	Thai Journal of Pharmaceutical Sciences	45 & 374	2021	0125-4685 / 0125-4685
14	Sonawane Sandeep Suresh	Development and optimization of proniosomal gel containing etodolac: In vitro, Ex-vivo and In-vivo evaluation	Ars Pharmaceutica	62 & 290	2021	0004-2927 / 0004-2927
15	Sonawane Sandeep Suresh	Stability-indicating LC Method for Quantification of Azelnidipine: Synthesis and Characterization of Oxidative Degradation Product	Turkish Journal of Pharmaceutical Sciences	18 & 550	2021	1304-530X / 1304-530X
16	Udavant Pavan Bhausaheb	Development and Optimization of Proniosomal Gel Containing Etodolac: Invitro, Ex-vivo and In-vivo Evaluation	Ars Pharmaceutica	62 & 290	2021	0004-2927 / 0004-2927
17	Udavant Pavan Bhausaheb	Degradation study of Sofosbuvir in Bulk drug and tablet dosage form by RP-HPLC	LINO	11 & 11	2021	MAHARASHTRA / 0211-2574
18	Thombre Nilima Abhijeet	Development of Indomethacin Microspheres Using Natural and Synthetic Polymers as Sustained Release Dosage Form	PENSEE	51 & 8	2021	0031-4773 / 0031-4773



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19	Ahirrao Sapana P, Sonawane Mayur P, Bhambere Deepak S, Udavant Pavan B, Ahire Eknath, Kanade Rupali, Kuber Dinesh	Cocrystal Formulation: A Novel Approach to Enhance Solubility and Dissolution of Etodolac	BIOSCIENCES BIOTECHNOLOGY RESEARCH ASIA	19 & 111	2022	NA / 0973-1245
20	Ahirrao Sapana P, Bhambere Deepak S, Todkar Kunal, Patil Moreshwar P, Udavant Pavan B, Khairnar Pallavi, Gosavi Piyushgir	Formulation Development and Evaluation of Floating Tablets of Zolmitriptan	BIOSCIENCES BIOTECHNOLOGY RESEARCH ASIA	19 & 123	2022	NA / 0973-1245
21	Bhambere Deepak Sunil	Cocrystal Formulation: A Novel Approach to Enhance Solubility and Dissolution of Etodolac	Biosciences Biotechnology Research Asia	19 & 1	2022	NA / 2456-2602
22	Bhambere Deepak Sunil	Application of Central Composite Design for Development of Celecoxib Loaded Lipospheres: Formulation and in-vitro Characterization	Indian Journal of Pharmaceutical Education and Research	56 & 405--	2022	NA / NA
23	Bhambere Deepak Sunil	Development and Optimization of Proniosomal Gel Containing Etodolac: In-vitro, Ex-vivo and In-vivo Evaluation	Ars Pharmaceutica (Internet)	62 & 290	2021	2340-9894 / 0004-2927
24	Bhambere Deepak Sunil	Development and Validation of Stability Indicating RP-HPLC Method for Azelnidipine for bulk drug.	NVEO-NATURAL VOLATILES & ESSENTIAL OILS Journal  NVEO	8 & 11151	2021	2148-9637 / 2148-9637
25	Rishipathak Dinesh	Molecular Modelling of 1H-Benzo [b] [1,5] Diazepine-2 (3H)-one Derivatives and Docking Studies Against Receptor Associated Protein	Journal of Pharmaceutical Research International	34 & 7	2022	NA / 2456-9119
26	Rishipathak Dinesh Dattatraya	Synthesis and Biological Evaluation of Some Newer 1h-Benzo[b][1,5]diazepin-2(3h)-One Derivatives as Potential Anticonvulsant Agents	Pharmaceutical Sciences	In press & 23	2022	0 / 1735-403X

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27	Rishipathak Dinesh Dattatraya	Synthesis and In-Vitro Cytotoxic Anti cancer Activity of Novel Copper Complexes of Substituted 1H-Benzimidazole	International Journal of Pharmaceutical Sciences Review and Research	74 & 8	2022	0 / 0976-044X
28	Ghodke Shantanu Sanjay	Synthesis, Pharmacological Evaluation and QSAR Study of Benzohydrazide Analogues as Anti-Inflammatory Agents.	PENSEE Internation Journal	51 & 9	2021	NA / 0031-4773
29	Patil Moreshwar Pandharinath	"Development of sertaconazole nitrate loaded nanostructured lipid carriers gel using central composite design: in-vitro and ex-vivo evaluation".	Nanoscience and Nanotechnology-Asia	11 & 12	2021	2210-6820 / 2210-6812
30	Patil Moreshwar Pandharinath	"Development and optimization of proniosomal gel containing etodolac: in vitro, ex vivo and in vivo evaluation".	Ars Pharmaceutica	62 & 15**	2021	2340-9894 / 2340-9894
31	Patil Moreshwar Pandharinath	"Application of central composite design for development of celecoxib loaded lipospheres: formulation and in-vitro characterization"	Indian J. Pharm. Edu. Res	56 & 9	2022	0019-5464 / 0019-5464
32	Patil Moreshwar P	"Bridging pharmaceutical analysis with computational chemistry to ascertain pharmacokinetic and toxicological profiling of febuxostat and its diacid impurity.	Anal Chem Letters	12 & 12	2022	2229-7928 / 2230-7532
33	Patil Moreshwar Pandharinath	Lipid based solid self-emulsifying delivery system of pitavastatin calcium: development and characterization	Int. J. Pharm. sci. Drug Res.	14 & 6	2022	0975-248X / 0975-248X



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34	Patil Moreshwar Pandharinath	Formulation, development and evaluation of floating tablet of zolmitriptan,	Biosci. Biotechnol Res. Asia	19 & 11	2022	0973-1245 / 2456-2602
35	Hussain Nazim .Bibhuti Bhushan Kakoti.Khairnar Shubham Jagdish.Rudrapal Mithun	Bioactive Antidiabetic Flavonoids from the Stem Bark of Cordia dichotoma Forst.: Identification, Docking and ADMET Studies	Molbank	2021 & 10	2021	- / 1422-8599
36	Khaimar Shubham Jagdish	Protective Effects of Diets Rich in Polyphenols in Cigarette Smoke (CS)-Induced Oxidative Damages and Associated Health Implications.	Antioxidants (MDPI)	11 & 20	2022	- / 2076-3921
37	Khaimar Shubham Jagdish	Anti-inflammatory activity of Sabicea brevipes Wernharm (Rubiaceae)	Pharmacia	69 & 6	2022	- / 2603-557X
38	Khaimar Shubham Jagdish	? Atorvastatin ascorbic acid cocrystal strategy to improve the safety and efficacy of atorvastatin	Pharmacia	69 & 6	2022	- / 2603-557X
39	Khaimar Shubham Jagdish	Magnetic Drug Delivery System: New Hope for Cancer Patients	Bioscience Biotechnology Research Asia	19 & 8	2022	- / 2456-2602
40	Kshirsagr Sanjay J	Development of reverse phase high-performance liquid chromatographic method for the estimation of HIV non-nucleoside reverse transcriptase inhibitor drug efavirenz in the rat brain	Future Journal of Pharmaceutical Sciences	7 & 7	2021	- / 2314-7253
41	Kshirsagr Sanjay J	QBD Approach to Predict the in-vivo Performance Based on in-vitro Results using Mucuna pruriens Seed Mucilage as a Novel Tablet Dosage Form Excipient and Dicofenac Sodium	Indian Journal Of Pharmaceutical Education And Research	55 & 12	2021	- / 0019-5464



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42	Kshirsagr Sanjay J	Development of Sertaconazole Nitrate Loaded Nanostructured Lipid Carriers Gel Using Central Composite Design: In vitro and Ex vivo Evaluation	Nanoscience & Nanotechnology-Asia	11 & 11	2021	- / 2210-6820
43	Kakad Smita Prakash	Nose to brain delivery of nanosuspensions with first line antiviral agents is alternative treatment option to Neuro-AIDS treatment.	Heliyon	8 & 9925	2022	NA / e09925
44	Kakad Smita Prakash	Nose to brain delivery of Efavirenz nanosuspension for effective neuro AIDS therapy: in-vitro, in-vivo and pharmacokinetic assessment	Heliyon	7 & 8368	2021	0 / 2405-8440
45	Kshirsagar Sanjay Jayprakash	FORMULATION OF PPAR-GAMMA AGONIST AS SURFACE MODIFIED PLGA NANOPARTICLES FOR NON-INVASIVE TREATMENT OF DIABETIC RETINOPATHY: IN VITRO AND IN VIVO EVIDENCES	All India Council for Technical Education Sponsored Online National Conference On Pharma QbD: Product Development Perspective	1	2021	- /
46	Kshirsagar Sanjay Jayprakash	Development Of Non-Invasive Treatment For Management Of Diabetic Retinopathy	INTERNATIONAL e - CONFERENCE on "Pharmaceutical Research and Innovation to Tackle Future Health Care Arena"	1	2021	- / -

**8. Research Projects/Schemes Undertaken by Teachers (2021-2022)**

Sr. No.	Name of the Investigator(s)	Faculty	Title of the Research Project/Scheme	Name of the Funding Agency	Duration of the Project/Scheme	Amount Sanctioned (Rs.)	Major/Minor
NA	NA	NA	NA	NA	NA	NA	NA

**9. Teachers Attended Conferences, Seminars, Symposia, Workshops etc. (2021-2022)**

Sr. No.	No. of Teachers Attended State Level	No. of Teachers Attended National Level	No. of Teachers Attended International Level
1	2	30	8





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10. No. of Collaboration with International Institute/Colleges/University Department during the Year (2021-2022)				
Sr. No.	MoU	Exchange Program	Exchange of Teachers	Franchise
1	3	0	0	0

  

11. Grants Sanction for Funding Agency (2021-2022)					
Sr. No.	UGC	DST/DBT/B.Voc.	CE/CPE	S.P. Pune University	Any Other
1	0	0	0	0	3

12. Faculty Wise Enrollment Of Students (2021-2022)

Faculty	Sex	Open	Sc	ST	DT(A)	NT	NT(B)	NT(C)	NT(D)	OBC	SBC	Physically Challenged	Total	
Pharmacy	FEMALE	40	15	2	1	0	2	5	5	42	1	0	113	
		0	0	1	0	0	0	0	0	0	0	1	2	
	MALE	19	7	4	2	0	2	2	2	28	2	0	68	
		0	0	0	0	0	0	0	0	0	1	0	2	
	<b>TOTAL</b>		59	22	7	3	0	4	7	7	71	3	2	185



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13. Statistical Information about Teacher for Academic Year ( 2021-2022 )

Sr.No.	Category	Granted			Non Granted		
		Male	Female	Total	Male	Female	Total
1	NT(D)	0	0	0	0	2	2
2	OBC	0	0	0	1	1	2
3	OPEN	0	0	0	10	6	
4	SC	1	0	1	1	2	
5	ST	0	0	0	1	0	1
	<b>Total</b>	1	0	1	13	11	24

Signature<sup>16</sup>  
HOD/Principal/Director



*[Handwritten Signature]*  
**PRINCIPAL**  
MET's Institute of Pharmacy  
Adgaon, Nashik