



Panchakshari Shivacharya Trust's Aloor

# **CHANNABASWESHWAR PHARMACY COLLEGE (DEGREE), LATUR**

Basweshwar Chowk, Kava Road, Latur-413512 (Maharashtra)



## **CRITERION 1 CURRICULAR ASPECTS**

### **1.3 Curriculum Enrichment**

---

#### **1.3.2**

**Percentage of students undertaking projectwork/field work/internship (Data for the latest completed academic year)**

##### **1.3.2.1**

**Number of students undertaking project work/field work/internship**

**e) Environmental Science  
(First Year B. Pharm)**





Panchakshri Shivacharya Trust's

## CHANNABASWESHWAR PHARMACY COLLEGE (DEGREE)

Kava Road, Basweshwar Chowk, Latur-413512 (Maharashtra) Tel./Fax :- (02382) 243855

DTE Code :- 2253, University Code :- 947, MSBTE Code :- 2041

Email:- channabasweshwar@gmail.com / principalcbpc@gmail.com Website:- www.channabasweshwar.org

Approved by:- Govt. of Maharashtra, PCI, New Delhi, Affiliated to:- S.R.T.M. University, Nanded, MSBTE, Mumbai.

### 1.3 Curriculum Enrichment

1.3.2 Percentage of students undertaking project work/field work/internship (Data for the latest completed academic year) Academic Year 2022-23.

e) Environmental Science

#### INDEX

Sr. No.	Content	Page No.
5.	Environmental Science (First Year B. Pharm)	1-6
5.1	Curriculum Scheme & Syllabus	7-9
5.2	Other relevant document	10-10

Panchakshri Shivacharya Trust's Est :- 1973



## Channabasweshwar Pharmacy College (Degree)

Kava Road, Basweshwar Chowk, Latur-413512 (Maharashtra)

Phone No. (02382) 240192, Fax-(02382) 243855

Email- channabasweshwar@gmail.com Website- www.cdphl.org

Approved by:- Govt. Of Maharashtra, AICTE & PCI New Delhi, Affiliated to :- S.R.T.M.University Nanded.

DTE Code :- 2253, University Code :- 947

### 1. List of the students completing the Environmental Science Project (2022-23)

#### B.Pharm. 2<sup>nd</sup> Semester

Duration of the Project: 01/04/2023 to 12/06/2023



Sr. No.	Name of Student	Project Title	Place of Work
1	Abdulpure Sakshi Mahadev	Water Pollution	Channabasweshwar Pharmacy College (Degree) , Latur.
2	Adamane Vaishnavi Rameshwar	Air Pollution	Channabasweshwar Pharmacy College (Degree), Latur.
3	Akangire Apurva Sanjay	Noise Pollution	Channabasweshwar Pharmacy College (Degree), Latur.
4	Andhare Vaishnavi Seema	Electronic Waste	Channabasweshwar Pharmacy College (Degree), Latur.
5	Arbale Shivam Devendra	Global Warming	Channabasweshwar Pharmacy College (Degree), Latur.
6	Babne Rutuja Pradip	Green House	Channabasweshwar Pharmacy College (Degree), Latur.
7	Balshetwar Janhavi Nagnath	Carbon Animation	Channabasweshwar Pharmacy College (Degree), Latur.
8	Bansode Ankita Ravindra	Acid Rain	Channabasweshwar Pharmacy College (Degree), Latur.
9	Bharaswadkar Aarya Makarand	Biodiversity	Channabasweshwar Pharmacy College (Degree), Latur.
10	Bhendekar Nandini Narayan	Climate change	Channabasweshwar Pharmacy College (Degree), Latur.
11	Bhosale Prajкта Pravin	Fire Ecology	Channabasweshwar Pharmacy College (Degree), Latur.
12	Bhosale Prasad Pradip	Renewable Energy	Channabasweshwar Pharmacy College (Degree), Latur.
13	Bhure Ritesh Somnath	Urban Ecology	Channabasweshwar Pharmacy College (Degree), Latur.
14	Birajdar Pooja Limbraj	Remote Sensing and Geographic Information System	Channabasweshwar Pharmacy College (Degree), Latur.
15	Birajdar Vishwajeet Sunil	Bioremediation	Channabasweshwar Pharmacy College (Degree), Latur.
16	Borade Shruti Shrinivas	Light Pollution	Channabasweshwar Pharmacy

			College (Degree), Latur.
17	Chalwad Karan Vijay	Waste Water Management	Channabasweshwar Pharmacy College (Degree), Latur.
18	Chavan Akash Dagadu	National Green Tribunal	Channabasweshwar Pharmacy College (Degree), Latur.
19	Cheble Sanjana Shivaji	Pollution Prevention	Channabasweshwar Pharmacy College (Degree), Latur.
20	DalveeMukudraj Umesh	Greenhouse Gas Emmission	Channabasweshwar Pharmacy College (Degree), Latur.
21	Deshmukh Arjun Prakash	Action On Preventing Hazardoussubstance Spill	Channabasweshwar Pharmacy College (Degree), Latur.
22	Dhabale Sagar Harishchandra	Solid Waste Management	Channabasweshwar Pharmacy College (Degree), Latur.
23	Dhange Shubham Ramanappa	National Environmental Policy in India	Channabasweshwar Pharmacy College (Degree), Latur.
24	Dode Vikas Gangadhar	Plastic Waste	Channabasweshwar Pharmacy College (Degree), Latur.
25	Dongare Ritu Mahadev	Air Emmission Factors and Inventories	Channabasweshwar Pharmacy College (Degree), Latur.
26	Dongare Shreya Kisan	Wind Energy and Its Application	Channabasweshwar Pharmacy College (Degree), Latur.
27	Dongare Snehal Someshwar	Plastic Waste and Its Effect On Environment	Channabasweshwar Pharmacy College (Degree), Latur.
28	Gajbhare Sumedh Sahebrao	Solar Energy And Its Application	Channabasweshwar Pharmacy College (Degree), Latur.
29	Gandle Akash Vivekanand	Air Quality Analysis	Channabasweshwar Pharmacy College (Degree), Latur.
30	Ghante Balaji Tukaram	Radiation Pollution	Channabasweshwar Pharmacy College (Degree), Latur.
31	Gore Krushna Goroba	Biosolids	Channabasweshwar Pharmacy College (Degree), Latur.
32	Gorse Nalanda Datta	Carbon Monoxide Pollution In Outdoor Air	Channabasweshwar Pharmacy College (Degree), Latur.
33	Gudale Sneha Shivshankar	Tiger Project In Maharashtra	Channabasweshwar Pharmacy College (Degree), Latur.
34	Gunale Ashwini Shrirang	Soil Pollution	Channabasweshwar Pharmacy College (Degree), Latur.
35	HamaneApekesha Vinod	Clean Air Technology Centre	Channabasweshwar Pharmacy College (Degree), Latur.
36	Hange Shubham Ravikant	Chipko Moment	Channabasweshwar Pharmacy College (Degree), Latur.
37	Honrao Sakshi Vankatrao	Future Of Nuclear Power Project in India	Channabasweshwar Pharmacy College (Degree), Latur.
38	IndewarSuvnamalaChimna ji	Festival Impact On Environment	Channabasweshwar Pharmacy College (Degree), Latur.

39	Jadhav Aishwarya Omprakash	Climate Adaptation	Channabasweshwar Pharmacy College (Degree), Latur.
40	Jadhav Sakshi Ratnakar	Clinical Studies In Environmental Health	Channabasweshwar Pharmacy College (Degree), Latur.
41	Jadhav Sanket Satish	Renewable Energy	Channabasweshwar Pharmacy College (Degree), Latur.
42	Jadhav Vedant Jaysingrao	Coal Combution Residuals	Channabasweshwar Pharmacy College (Degree), Latur.
43	Jalkote Gaytri Nagnath	Wastes In Space	Channabasweshwar Pharmacy College (Degree), Latur.
44	Jamadar Sana Abbas	Drinking Water And Waste Water Resilience	Channabasweshwar Pharmacy College (Degree), Latur.
45	Jawalge Sakshi Madhukar	Rain Water Harvesting	Channabasweshwar Pharmacy College (Degree), Latur.
46	Kadam Sanika Balasaheb	Electronic Reporting Of Air Emmission	Channabasweshwar Pharmacy College (Degree), Latur.
47	Kadwade Nikita Umakant	Tree Plantation And Its Importance	Channabasweshwar Pharmacy College (Degree), Latur.
48	Kalyankar Rushikesh Sahebrao	Epa Centre And Innovation	Channabasweshwar Pharmacy College (Degree), Latur.
49	Kamore Pratiksha Vinayak	Use Of Pesticides In Agriculture & Its Effect On Human Body	Channabasweshwar Pharmacy College (Degree), Latur.
50	Karad Sanket Motilal	Medical Wastes	Channabasweshwar Pharmacy College (Degree), Latur.
51	Karmukle Shubhangi Uttam	Facts And Figures About Material, Wastes And Recycling	Channabasweshwar Pharmacy College (Degree), Latur.
52	KarpudeShriyaar Dilawar	Industrial Pollution	Channabasweshwar Pharmacy College (Degree), Latur.
53	Kathale Rudrani Vishwanath	Environmental Laws	Channabasweshwar Pharmacy College (Degree), Latur.
54	Kelkar Divya Santosh	Solid Waste Management	Channabasweshwar Pharmacy College (Degree), Latur.
55	Kendre Manthan Manohar	Population	Channabasweshwar Pharmacy College (Degree), Latur.
56	Kulkarni RamkrushnaVasantrao	Ozone Layer Protection	Channabasweshwar Pharmacy College (Degree), Latur.
57	Kumbhar Vaishnavi Bibhishan	Particulate Matter Pollution	Channabasweshwar Pharmacy College (Degree), Latur.
58	Kutwade Ajay Vishnu	Migration Movments	Channabasweshwar Pharmacy College (Degree), Latur.
59	Lamtore Pavan Pandurang	Reduce, Reuse, Recycle(Rrr) Importance	Channabasweshwar Pharmacy College (Degree), Latur.
60	Landge Vivek Kailas	Small And Rural Waste Water System	Channabasweshwar Pharmacy College (Degree), Latur.

61	Lokhande Sheetal Kamalakar	So <sub>2</sub> Pollution	Channabasweshwar Pharmacy College (Degree), Latur.
62	Malwad Sainath Dhanurket	Toxic Release Inventory	Channabasweshwar Pharmacy College (Degree), Latur.
63	Mane Vaishali Umakant	U.S. Environmental Protection Agency	Channabasweshwar Pharmacy College (Degree), Latur.
64	Maskar Asmit Abasaheb	Underground Storage Tanks	Channabasweshwar Pharmacy College (Degree), Latur.
65	Mhamane Avinash Anil	Vehicles And Engines	Channabasweshwar Pharmacy College (Degree), Latur.
66	Mogle Pankaj Pandhari	Water Reuse And Recycling	Channabasweshwar Pharmacy College (Degree), Latur.
67	Murkute Sakshi Pralhad	Water Land Protection & Restoration	Channabasweshwar Pharmacy College (Degree), Latur.
68	Musande Vaishnavi Vitthal	Wildfire Smoke	Channabasweshwar Pharmacy College (Degree), Latur.
69	Nagargoje Madhav Sanjay	Diversity And Ecosystem Functioning In Agricultural Landscapes	Channabasweshwar Pharmacy College (Degree), Latur.
70	Narhare Priyanka Sanjay	Impact Of Climate Change On The Distribution Of Migratory Marine Species	Channabasweshwar Pharmacy College (Degree), Latur.
71	Panure Pranjali Bhushan	Role Of Mutualistic Plant- Insect Relationships In Maintaining Ecosystem Stability	Channabasweshwar Pharmacy College (Degree), Latur.
72	Pathan MazharoddinTajoddin	Role Of Ecosystem Services In Urban Areas	Channabasweshwar Pharmacy College (Degree), Latur.
73	Patil Shivilila Gunvant	Effectiveness Of Different Grassland Restoration Techniques	Channabasweshwar Pharmacy College (Degree), Latur.
74	Patil Shravani Sharadrao	The Role Of Microbial Diversity In Ecosystem	Channabasweshwar Pharmacy College (Degree), Latur.
75	Pedde Sujata Shankar	The Impact Of Agricultural Land-Use Change On Global Atmospheric Composition	Channabasweshwar Pharmacy College (Degree), Latur.
76	Pogare Rohit Narayan	Impact Of Ocean Acidification	Channabasweshwar Pharmacy College (Degree), Latur.
77	Pole Gajanan Rajesh	The Challenges Of Large- Scale Biomass Energy Use	Channabasweshwar Pharmacy College (Degree), Latur.
78	Pune Prerna Shamrao	Transporting Geothermal Energy	Channabasweshwar Pharmacy College (Degree), Latur.
79	Radha Shriram Bhosale	Solar Energy And Pollution	Channabasweshwar Pharmacy College (Degree), Latur.
80	Reddy Shubham Jaiprakash	Hydropower	Channabasweshwar Pharmacy College (Degree), Latur.



81	Rohan Rabin Patra	Solar Energy To Help The Economy	Channabasweshwar Pharmacy College (Degree), Latur.
82	Salunke Supriya Venkatrao	Geothermal Energy	Channabasweshwar Pharmacy College (Degree), Latur.
83	Sarde Pratima Popat	Hydrogen Fuel Cells	Channabasweshwar Pharmacy College (Degree), Latur.
84	Sayyad Saniya Ibrahim	Solar Power	Channabasweshwar Pharmacy College (Degree), Latur.
85	Shaha Khushi Rupesh	Urbanization Affect Surrounding Rural Areas	Channabasweshwar Pharmacy College (Degree), Latur.
86	Shaikh Nabisab Hamid	Urban Heat Island Effect	Channabasweshwar Pharmacy College (Degree), Latur.
87	Shelke Avinash Kishanrao	Overfishing And Non-Sustainable Fishing Methods Affects On Oceans	Channabasweshwar Pharmacy College (Degree), Latur.
88	Shelke Sanika Sanjay	Deforestation	Channabasweshwar Pharmacy College (Degree), Latur.
89	Shinde Aditya Abasaheb	Artificial Neural Network (Ann)	Channabasweshwar Pharmacy College (Degree), Latur.
90	Shinde Asmita Sambhaji	Genetically Modified (Gm) Foods And Their Impact On The Environment	Channabasweshwar Pharmacy College (Degree), Latur.
91	Shinde Pooja Ramdas	Global Impact Of Radiation And Nuclear Accidents	Channabasweshwar Pharmacy College (Degree), Latur.
92	Shinde Rajesh Jagannath	Role Of The Unep In Environmental Conservation	Channabasweshwar Pharmacy College (Degree), Latur.
93	Shinde Vaibhav Uddhav	Micro-Plastics In Drinking Water	Channabasweshwar Pharmacy College (Degree), Latur.
94	Somani Shrawani Nilesh	The Nagasaki And Hiroshima Bombings Effects On The Ecosystem	Channabasweshwar Pharmacy College (Degree), Latur.
95	Suryawanshi Asmita Bhujangrao	Energy Efficiency And Energy Conservation	Channabasweshwar Pharmacy College (Degree), Latur.
96	Suryawanshi Ravindra Ganpati	Coal Pivotal	Channabasweshwar Pharmacy College (Degree), Latur.
97	Suryawanshi Mansi Sanjay	Biofuel	Channabasweshwar Pharmacy College (Degree), Latur.
98	Swami Abhishek Nilappa	Plant Biomass	Channabasweshwar Pharmacy College (Degree), Latur.
99	Swami Soham Shantir	Population Growth And Its Effects On Gdp	Channabasweshwar Pharmacy College (Degree), Latur.
100	Swami Vaibhav Shivkant	The Effects Of Global Warming On The Global Population	Channabasweshwar Pharmacy College (Degree), Latur.
101	Tangawar Shubham Shivkumar	Light Pollution And The Effects On Plants	Channabasweshwar Pharmacy College (Degree), Latur.

102	Tejewad Shruti Suryakant	Changes In Animal Behavior Due To Noise Pollution	Channabasweshwar Pharmacy College (Degree), Latur.
103	Ugale Vaishnavi Vyankat	Biodiversity	Channabasweshwar Pharmacy College (Degree), Latur.
104	Waghmare Sakshi Bhimrao	The Collapse Of The World's Coral Reef Ecosystems	Channabasweshwar Pharmacy College (Degree), Latur.
105	Walke Akash Dhondiram	Threat Of Acidification In Our Oceans	Channabasweshwar Pharmacy College (Degree), Latur.
106	Warle Sumit Irba	The Decline In Pollinating Insects	Channabasweshwar Pharmacy College (Degree), Latur.
107	Warpe Kinjal Avinash	The Effectiveness Of Intelligent Transport	Channabasweshwar Pharmacy College (Degree), Latur.
108	Yedale Shubham Rajkumar	The Impact Of Recycling In Preserving The Environment	Channabasweshwar Pharmacy College (Degree), Latur.



**Principal**  
Channabasweshwar Pharmacy  
College (Degree), Latur





Panchakshri Shivacharya Trust's

Est :- 1973

## Channabasweshwar Pharmacy College (Degree)

Kava Road, Basweshwar Chowk, Latur-413512 (Maharashtra)

Phone No. (02382) 240192, Fax-(02382) 243855

Email- [channabasweshwar@gmail.com](mailto:channabasweshwar@gmail.com) Website- [www.cdphl.org](http://www.cdphl.org)

Approved by:- Govt. Of Maharashtra, AICTE & PCI New Delhi, Affiliated to :- S.R.T.M.University Nanded.

DTE Code :- 2253, University Code :- 947

### 5.1 Curriculum Scheme & Syllabus

Pharmacy Council of India  
New Delhi

## Rules & Syllabus for the Bachelor of Pharmacy (B. Pharm) Course

[Framed under Regulation 6, 7 & 8 of the Bachelor of  
Pharmacy (B. Pharm) course regulations 2014]



**Principal**  
Channabasweshwar Pharmacy  
College (Degree), Latur

**Table-II: Course of study for semester II**

Course Code	Name of the course	No. of hours	Tutorial	Credit points
BP201T	Human Anatomy and Physiology II – Theory	3	1	4
BP202T	Pharmaceutical Organic Chemistry I – Theory	3	1	4
BP203T	Biochemistry – Theory	3	1	4
BP204T	Pathophysiology – Theory	3	1	4
BP205T	Computer Applications in Pharmacy – Theory *	3	-	3
BP206T	Environmental sciences – Theory *	3	-	3
BP207P	Human Anatomy and Physiology II –Practical	4	-	2
BP208P	Pharmaceutical Organic Chemistry I– Practical	4	-	2
BP209P	Biochemistry – Practical	4	-	2
BP210P	Computer Applications in Pharmacy – Practical*	2	-	1
<b>Total</b>		<b>32</b>	<b>4</b>	<b>29</b>

\*Non University Examination (NUE)

**Table-III: Course of study for semester III**

Course code	Name of the course	No. of hours	Tutorial	Credit points
BP301T	Pharmaceutical Organic Chemistry II – Theory	3	1	4
BP302T	Physical Pharmaceutics I – Theory	3	1	4
BP303T	Pharmaceutical Microbiology – Theory	3	1	4
BP304T	Pharmaceutical Engineering – Theory	3	1	4
BP305P	Pharmaceutical Organic Chemistry II – Practical	4	-	2
BP306P	Physical Pharmaceutics I – Practical	4	-	2
BP307P	Pharmaceutical Microbiology – Practical	4	-	2
BP 308P	Pharmaceutical Engineering –Practical	4	-	2
<b>Total</b>		<b>28</b>	<b>4</b>	<b>24</b>



**Principal**  
Channabasweshwar Pharmacy  
College (Degree), Latur

## BP 206 T. ENVIRONMENTAL SCIENCES (Theory)

30 hours

**Scope:** Environmental Sciences is the scientific study of the environmental system and the status of its inherent or induced changes on organisms. It includes not only the study of physical and biological characters of the environment but also the social and cultural factors and the impact of man on environment.

**Objectives:** Upon completion of the course the student shall be able to:

1. Create the awareness about environmental problems among learners.
2. Impart basic knowledge about the environment and its allied problems.
3. Develop an attitude of concern for the environment.
4. Motivate learner to participate in environment protection and environment improvement.
5. Acquire skills to help the concerned individuals in identifying and solving environmental problems.
6. Strive to attain harmony with Nature.

### Course content:

<b>Unit-I</b>	<b>10hours</b>
The Multidisciplinary nature of environmental studies	
Natural Resources	
Renewable and non-renewable resources:	
Natural resources and associated problems	
a) Forest resources; b) Water resources; c) Mineral resources; d) Food resources; e) Energy resources; f) Land resources: Role of an individual in conservation of natural resources.	
<b>Unit-II</b>	<b>10hours</b>
Ecosystems	
▪ Concept of an ecosystem.	
▪ Structure and function of an ecosystem.	
▪ Introduction, types, characteristic features, structure and function of the ecosystems: Forest ecosystem; Grassland ecosystem; Desert ecosystem; Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)	
<b>Unit- III</b>	<b>10hours</b>
Environmental Pollution: Air pollution; Water pollution; Soil pollution	



A handwritten signature in blue ink, consisting of several loops and strokes.

**Principal**  
Channabasweshwar Pharmacy  
College (Degree), Latur



Panchakshri Shivacharya Trust's

Est :- 1973

## Channabasweshwar Pharmacy College (Degree)

Kava Road, Basweshwar Chowk, Latur-413512 (Maharashtra)

Phone No. (02382) 240192, Fax-(02382) 243855


Email- [channabasweshwar@gmail.com](mailto:channabasweshwar@gmail.com) Website- [www.cdphl.org](http://www.cdphl.org)

Approved by:- Govt. Of Maharashtra, AICTE & PCI New Delhi, Affiliated to :- S.R.T.M.University Nanded.


DTE Code :- 2253, University Code :- 947

### 1.2 Other relevant document:

#### Sample Certificate of Environmental Science Project:



**CERTIFICATE BY THE PRINCIPAL**




This is to certify that the Practice school work entitled solid waste Management is based on bonafied work carried out Divya Santosh Kelkar at **Channabasweshwar Pharmacy College (Degree), Latur** under the guidance and supervision of **Miss. Wattamwar P.B.** to our satisfaction.

This is forwarded to **Swami Ramanand Teerth Marathwada University, Nanded** in the partial fulfillment of the requirement of degree of **Bachelor of Pharmacy** in the academic year 2022-23.

Date: 12/06/2023

Place: Latur



**Dr. Vijayendra Swamy S.M.**  
Principal  
Channabasweshwar Pharmacy College  
(Degree), Latur.