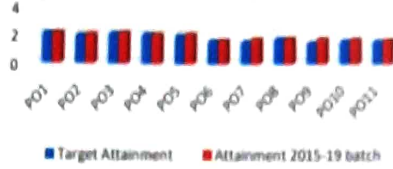


### COP Hubballi -PO Attainment level

2015-2019

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Target Attainment	2.06	1.93	2.04	2.01	1.94	1.58	1.52	1.72	1.44	1.55	1.52
Attainment 2015-19 batch	2.08	1.98	2.09	1.99	2.01	1.61	1.70	1.72	1.70	1.65	1.60

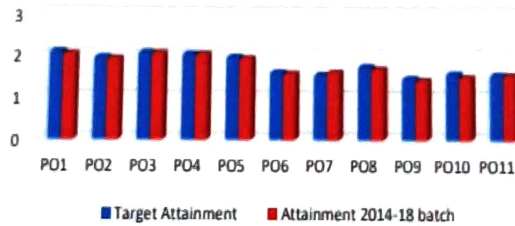
PO attainment KLECOPH 2015-2019 Batch



2014-2018

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Target Attainment	2.06	1.93	2.04	2.01	1.94	1.58	1.52	1.72	1.44	1.55	1.52
Attainment 2014-18 batch	2.01	1.90	2.03	2.01	1.91	1.55	1.58	1.66	1.39	1.47	1.51

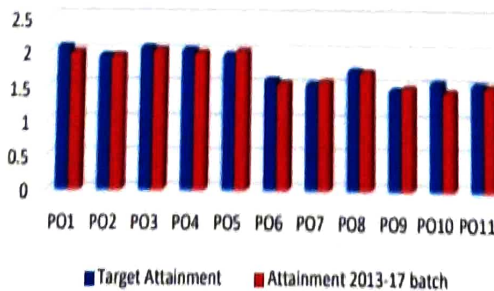
PO attainment KLECOPH 2014-2018 Batch



2013-2017

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Target Attainment	2.06	1.93	2.04	2.01	1.94	1.58	1.52	1.72	1.44	1.55	1.52
Attainment 2013-17 batch	1.98	1.93	2.01	1.97	1.99	1.53	1.55	1.7	1.47	1.42	1.49

PO attainment KLECOPH 2013-2017 Batch



**COURSE PLAN**

Semester: 1

Year: 2019-20

<b>Course Title: Human Anatomy and Physiology- I</b>	<b>Course Code: BP101T</b>
<b>Total Contact Credits: 45</b>	<b>Duration of SEE: 3 Hours</b>
<b>Semester End Examination (SEE) Marks:75</b>	<b>Continuous IA Marks: 25</b>
<b>Lesson Plan Author: Mr.N.M.Jeedi</b>	<b>Date: 04.05.2019</b>
<b>Checked By: Dr.P.C.Gadad</b>	<b>Date: 15.05.2019</b>

**Course Outcomes (COs):**

At the end of the course, the student should be able to:

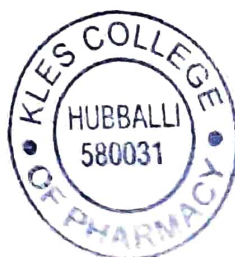
Code	
BP101T.1	Explain the gross morphology, structure and functions of various organs of the human body.
BP101T.2	Describe the various homeostatic mechanisms and their imbalances.
BP101T.3	Identify the various tissues and organs of different systems of human body.
BP101T.4	Describe the anatomy and physiology of special senses and nervous system.
BP101T.5	Appreciate coordinated working pattern of different organs of each system.

**COURSE ARTICULATION MATRIX: MAPPING OF COURSE OUTCOMES (CO) WITH PROGRAM OUTCOMES (PO)**

<b>Course Title: Human Anatomy and Physiology- I</b>	<b>Course Code: BP101T</b>
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	<b>Course Outcomes (CO) / Program Outcomes (PO)</b>	1	2	3	4	5	6	7	8	9	10	11
BP101T.1	Explain the gross morphology, structure and functions of various organs of the human body.	2		1								
BP101T.2	Describe the various homeostatic mechanisms and their imbalances.	2		2								1
BP101T.3	Identify the various tissues and organs of different systems of human body.	2			1						1	
BP101T.4	Describe the anatomy and physiology of special senses and nervous system.	2			2							1
BP101T.5	Appreciate coordinated working pattern of different organs of each system.	2		2								1

**Degree of compliance: 1 – Low 2 – Medium 3 – High**



Semester: II

## COURSE PLAN

Year: 2019-20

Course Title: Environmental studies *	Course Code: BP206T
Total Contact Credits: 45	Duration of ESA: 3 Hours
ESA Marks: 50	ISA Marks: 30
Lesson Plan Author: Ms Pratiksha Akki	Date: 20-12-2019
Checked By: Dr. P.M.Ronad	Date: 24-12-2019

## Course Outcomes (COs):

At the end of the course, the student should be able to:

COURSE OUTCOMES (COs)	
BP206T.1	Explain the importance of environmental science, ecosystem and resources.
BP206T.2	2 of environment
BP206T.3	Describe the impact of global warming, depletion of ozone layer and loss of biodiversity on environment
BP206T.4	Outline the economic productivity and national security
BP206T.5	Describe the laws related to environmental protection

## Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs)

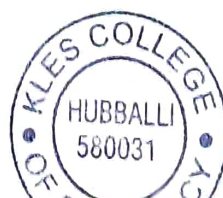
Course Title: Environmental studies *	Semester: II
Course Code: BP206T	Year: 2019-20

	Course Outcomes (COs) / Program Outcomes (POs)	1	2	3	4	5	6	7	8	9	10	11
BP206T.1	Explain the importance of environmental science, ecosystem and resources.										1	
BP206T.2	Discuss the continuing problems of pollution, loss of forest, solid waste disposal, degradation of environment		1	1							1	
BP206T.3	Describe the impact of global warming, depletion of ozone layer and loss of biodiversity on environment										1	
BP206T.4	Outline the economic productivity and national security										1	1
BP206T.5	Describe the laws related to environmental protection										1	1

Degree of compliance 1 Low

2: Medium

3: High



**Department of Pharmaceutics  
Course Plan**

<b>Semester: 3</b>	<b>Year: 2019-20</b>
<b>Course Title: Physical Pharmaceutics-I</b>	<b>Course Code: BP 302 T</b>
<b>Total Contact Credits: 45</b>	<b>Duration of SEE: 3 Hours</b>
<b>Semester End Examination (SEE) Marks:75</b>	<b>Continuous IA Marks: 25</b>
<b>Lesson Plan Author: V. V. Nagathan</b>	<b>Date: 04.05.2019</b>
<b>Checked By: Dr. V.G.Jamakandi</b>	<b>Date: 15.05.2019</b>

**Course Outcomes (COs):**

At the end of the course, the student should be able to:

Code	
<b>BP302 T.1</b>	Define and explain physical & chemical properties of the drug molecules, in designing stable and effective dosage form.
<b>BP302 T.2</b>	Define and classify types of solubility, solubilization phenomenon and factors influencing them
<b>BP302 T.3</b>	Explain, derive and apply buffer equation in development of stable dosage forms.
<b>BP302T.4</b>	Explain concept & laws involved in the states of matter.
<b>BP302 T.5</b>	Define, Classify complexes & explain method of analysis, protein binding of drugs.
<b>BP302 T.6</b>	Express & apply various law in development of experimental method for calculation of partition coefficient, surface & interfacial tension, adsorption, diffusion.

**Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs)**

<b>Course Title: Physical Pharmaceutics-I</b>	<b>Semester: 3</b>
<b>Course Code: BP 302 T</b>	<b>Year: 2019-20</b>

	Course Outcomes (COs) / Program Outcomes (POs)	1	2	3	4	5	6	7	8	9	10	11
302 T.1	Define and explain physical & chemical properties of the drug molecules, in designing stable and effective dosage form.	3			1							
302 T.2	Define and classify types of solubility, solubilization phenomenon and factors influencing them	2		2								
302 T.3	Explain, derive and apply buffer equation in development of stable dosage forms.	3	1		1							
302 T.4	Explain concept & laws involved in the states of matter.	3		1	1							
302 T.5	Define Classify complexes & explain method of analysis, protein binding of drugs.	3		2	1							
302 T.6	Express & apply various law in development of experimental method for calculation of partition coefficient, surface & interfacial tension, adsorption, diffusion.	3		1	1							

**Degree of compliance: 1 – Low 2 – Medium 3 – High**



Department of Pharmaceutical Chemistry

Semester: IV

Course Plan

Year: 2019-20

Course Title: Pharmaceutical Organic Chemistry-III	Course Code: BP401T
Total Contact Credits: 45	Duration of ESA: 3 Hours
ESA Marks: 75	ISA Marks: 25
Lesson Plan Author: Mrs. Akshata. S. M	Date: 10-12-2019
Checked By: Dr. M.B.Palkar	Date: 15-12-2019

**Course Outcomes (COs):**

At the end of the course, the student should be able to:

COURSE OUTCOMES (COs)	
BP401T.1	Explain the stereo chemical aspects of organic compounds and stereo chemical reactions
BP401T.2	Identify, classify the heterocyclic compounds
BP401T.3	Understand the methods of preparation and properties of organic compounds
BP401T.4	Know the medicinal uses and other applications of organic compounds
BP401T.5	Explain the named reactions and mechanism

**Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs)**

Course Title: Pharmaceutical Organic Chemistry-III	Semester: IV
Course Code: BP 401T	Year: 2019-20

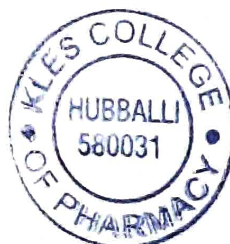
	Course Outcomes (COs) / Program Outcomes (POs)	PO's										
		1	2	3	4	5	6	7	8	9	10	11
BP401T.1	Explain the stereo chemical aspects of organic compounds and stereo chemical reactions	1	2	2	-	-	-	-	-	-	-	-
BP401T.2	Identify, classify the heterocyclic compounds	1	2	1	-	-	-	-	-	-	-	-
BP401T.3	Understand the methods of preparation and properties of organic compounds	1	1	2	-	-	-	-	-	-	-	-
BP401T.4	Know the medicinal uses and other applications of organic compounds	1	2	2	-	-	-	-	-	-	-	-
BP401T.5	Explain the named reactions and mechanism	1	1	2	-	-	-	-	-	-	-	-

Degree of compliance

1 Low

2: Medium

3: High



Semester: V		Course Plan		Year: 2019-20	
Course Title: Pharmacognosy and Phytochemistry-II			Course Code: BP504T		
Total Contact Hours: 45			Duration of SEE: 3 Hours		
SEE Marks: 75			IA Marks: 25		
Lesson Plan Author: Dr (Mrs) K S Akki			Date: 04-05-2020		
Checked By: Mr R V Karadi			Date: 15-05-2020		

### Course Outcomes (COs):

At the end of the course, the student should be able to:

COURSE OUTCOMES (COs)	
BP504T.1	Define, explain and investigate the basic techniques of biosynthesis of secondary metabolites in higher plants.
BP504T.2	Explain the chemistry and pharmacognostic scheme of crude drugs containing various classes of secondary metabolites.
BP504T.3	Apply different methods of isolation, identification and analysis of phytoconstituents.
BP504T.4	Apply the latest technique of chromatographic and spectroscopic in isolation, purification and identification of phytoconstituents.

### Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs)

Course Title: Pharmacognosy and Phytochemistry	Semester: 5
Course Code: BP 504T	Year: 2019-20

Course Code	Course Outcomes (COs) / Program Outcomes (POs)	1	2	3	4	5	6	7	8	9	10	11
BP504T.1	Define, explain and investigate the basic techniques of biosynthesis of secondary metabolites in higher plants.	2		1								
BP504T.2	Explain the chemistry and pharmacognostic scheme of crude drugs containing various classes of secondary metabolites.	2					2			2		
BP504T.3	Apply different methods of isolation, identification and analysis of phytoconstituents.	2	2		2							1
BP504T.4	Apply the latest technique of chromatographic and spectroscopic in isolation, purification and identification of phytoconstituents.	1		1	2							1

Degree of compliance: 1 – Low 2 – Medium 3 - High

