Course Type	Course Code	Name of Course	L	Т	P	Credit
DP	NCYC508	Pharmaceutical Documentation Lab		0	3	1.5

## **Course Objective**

• Documentation is highly important in Pharma industry. The objective of this course is to give handson experience to students on how documentation is done in pharma industry

## **Learning Outcomes**

• Students will learn various types of documentation involved in manufacturing, regulatory affairs, pharmacovigilance and intellectual property.

Unit No.	Topics to be Covered	Lecture Hours	Learning Outcome		
1	General Instructions	3	General instructions for the lab		
2	chemical entity		Students will learn about pharrmacoepieas		
			of various countries		
3	Preparation of material safety data sheets for a new chemical	3	Students will learn the various safety protocols and considerations associated		
			with chemicals		
4	Preparation of IPQA checklist for various drug formulations	3	Students will learn the aspects of in-process quality control		
	Preparation of SOPs for given		Students will learn to how to prepare		
5	instrument	3	standard operating procudures for given		
			instrument		
6	Preparation of Batch manufacturing	3	Students will learn to how BMRs are		
	records		prepared and maintained to ensure quality		
7	Preparation of Master formula records	3	Students will learn to how MFRs are prepared and maintained to ensure quality		
	Pharmacovigilance mining		Students will learn to search PV databases		
8		3	to explore various adverse drug reactions		
			associated with given therapy		
	Patent searching and mining	3	Students will learn to search various		
9			databases to search the existing/expired		
			patents on given branded or generic		
	D 0: 4 4 1: 6 1 : 1		products		
10	Drafting patent claims for new chemical entity	3	Students will learn how to write a patent for a new chemical entity		
	Drafting patent claims for new drug		Students will learn how to write a patent for		
11	formulation	3	new drug formulation		
12-	IND and NDA applications	3	Students will learn how to file various types		
13			of IND and NDA application with the FDA		
14	Six sigma principles		Students will learn how six sigma principles		
		6	are employed in industry for problem		
			solving and improving efficiency.		
	Total	42L			

## **Text Books:**

- 1) Pharmaceutical Production Facilities: Design and Applications G.C.Cole
- 2) Mann's Pharmacovigilance, E.B. Andrews, N. Moore, Wiley, 2014.

## **References:**

- 1) US FDA website
- 2) USPTO, WIPO websites