

**Number of institute books collaboration**

Title	Year	Books
Textbook of Social pharmacy	2024	Pritam Publication Pvt.Ltd
Practical Handbook Pharmaceutical Analysis-II	2021	Akinik Publication New Delhi



Director  
Gauism College of Pharmacy  
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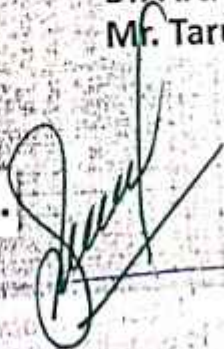
Textbook Of  
**Social  
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Dr. Sanjay Kumar  
Dr. Arti Jamwal Sharma  
Mr. Tarun K. Sharma

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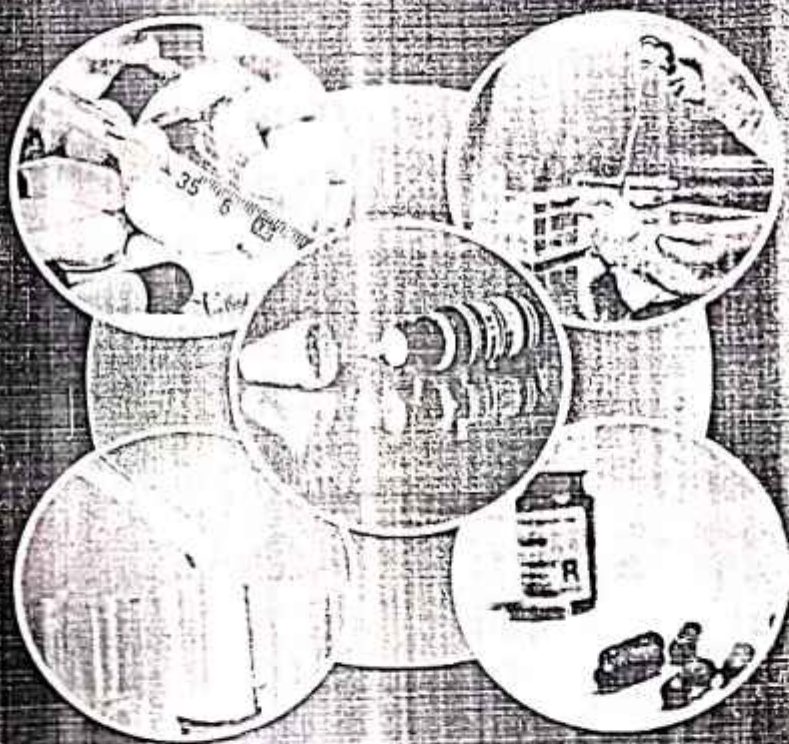
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# PRactical HANDBOOK PHARMACEUTICAL ANALYSIS - II



Dr. M. Akiful Haque, Sanjay Kumar, Madhu Bala  
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11-11-2021

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Hamirpur (HP) - 177001

Number of institute Patent collaboration		
Title	Year	Patent Name
Breast cancer detection device using micro calcification.	17/06/2024	(UK Patent)
AI based ocular drug delivery device to control diabetic retinopathy.	11/06/2024	(UK Patent)
Immediate release granules formulation for management of hypertension	10/05/2024	(Indian Patent)
Formulation comprising extracts of brassica juncea seeds for wound healing activity	01/09/2023	(Indian Patent)
A polyherbal formulation as an immunity booster	17/03/2023	(Indian Patent)
Method for formulation of Immediate release tablets	02/09/2022	(Indian Patent)
Machine learning based automatic waste management for e-environment	15/01/2021	(Indian Patent)

  
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# Certificate of Registration for a UK Design

Design number: G 170920

Grant date: 17 June 2024

Registration date: 10 June 2024

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Mohammed, Dr. Sangeeta Dureja, Miss. Nasrina Abdin, Dr. Himani Dureja

in respect of the application of such design to:

**BREAST CANCER DETECTION DEVICE USING MICRO CALCIFICATION**

International Design Classification:

Version: 14-2023

Class: 24 MEDICAL AND LABORATORY EQUIPMENT

Subclass: 01 APPARATUS AND EQUIPMENT FOR DOCTORS, HOSPITALS AND LABORATORIES

*Adam Williams*

**Adam Williams**

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Design number: 6390427

Grant date: 11 June 2024

Registration date: 31 May 2024

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Priyanka Paduranj Thore, Ms. Senali Angadrao Gore

**In respect of the application of such design to:**

**AI Based Ocular Drug delivery device to control diabetic Retinopathy**

**International Design Classification:**

**Version: 14-2023**

**Class: 24 MEDICAL AND LABORATORY EQUIPMENT**

**Subclass: 02 MEDICAL INSTRUMENTS, INSTRUMENTS AND TOOLS FOR LABORATORY USE**

*Adam Williams*

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**Comptroller-General of Patents, Designs and Trade Marks**

**Intellectual Property Office**

**The attention of the Proprietor(s) is drawn to the important notes overleaf**



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(54) Title of the invention : IMMEDIATE RELEASE GRANULES FORMULATION FOR MANAGEMENT OF HYPERTENSION

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Filing Date : NA

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(57) Abstract :  
ABSTRACT The present disclosure relates to an immediate release granules formulation for management of hypertension. The formulation includes a thiazide drug; Super disintegrants; Bulking materials; Emulsifying agents; Flavours and sweeteners; and Lubricants. Figure 1

No. of Pages : 26 No. of Claims : 7

  
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Office of the Controller General of Patents, Designs & Trade Marks  
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Government of India

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Application Details

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APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/08/2023
APPLICANT NAME	1. Dr. Sanjay Kumar 2. Mr. Tarun Kumar 3. Mrs. Upasana Thakur 4. Mrs. Archana Chaudhary 5. Mrs. Shavinder Kumari 6. Mr. Keshav Dhiman 7. Dr. Nayan Ashok Gujarathi 8. Mr. Akhil Modugil 9. Mrs. Kumari Varsha 10. Mrs. Shivali
TITLE OF INVENTION	FORMULATION COMPRISING EXTRACTS OF BRASSICA JUNCEA SEEDS FOR WOUND HEALING ACTIVITY
FIELD OF INVENTION	CHEMICAL
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
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(54) Title of the invention : FORMULATION COMPRISING EXTRACTS OF BRASSICA JUNCEA SEEDS FOR WOUND HEALING ACTIVITY

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Filing Date : NA

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(57) Abstract :  
ABSTRACT FORMULATION COMPRISING EXTRACTS OF BRASSICA JUNCEA SEEDS FOR WOUND HEALING ACTIVITY The present disclosure relates to a pharmaceutical formulation comprising extracts of Brassica juncea seed extract and wound. The formulation is in emulsi powder form and includes 1% w/w Silver sulfadiazine, aqueous seed extract ointment of Brassica juncea, and Ethanol seed extract mixture of Brassica juncea. The formulation is in spherical shape and better in taste. Figure 1

No. of Pages : 26 No. of Claims : 7

Director  
Gautam College of Pharmacy  
Hamirpur, Himachal Pradesh-177001





INTERNATIONAL APPLICATION PUBLICATION

Application No. 202211049644 A

Title of Application: METFORMIN FORMULATION OF IMMEDIATE RELEASE TABLETS

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(62) D. No.	NA

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(57) Abstract: A method for preparation of a formulation comprising Metformin having concentration of 1000mg/ml; ranging from 500um to 200um; Passing powder through 100 mesh sieve; Add 10% of Magnesium Stearate (110) as a lubricant and placebo comprising the steps of: Preparing (102) primary stock solution of Metformin (106) and drug scanning by a UV spectrophotometer at wavelengths 210nm, 215nm and 220nm; and determining and selecting the max 283 nm (112) for a solution.

The Patent Office, India, Patent No. 35/2022 Dated 02/09/2022  
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(57) Abstract:  
 In the current era, population is continuously growing leading to large amount of waste in turn resulting in environmental hazard. Management of huge amount of trash has become a critical challenge. Involvement of technology for smart waste management is viewed as an effective solution in order to mitigate this issue as increasing rate of waste is unprecedented. This invention proposes an automatic waste management method used on machine learning where the waste is segregated into organic waste and inorganic waste once collected by the trash bin. Conventionally human are involved in segregation of waste which leads to several diseases also such method is not efficient. Incineration of improperly segregated waste generates gases such as carbon monoxide affecting the ozone layer. The proposed trash bin is equipped with sensor system which is able to segregate the waste in an intelligent way along with report generation of waste collected. Machine learning technique along with image recognition classified the trash based on the input from sensors. The prototype is found to be efficient in segregating biodegradable and non-biodegradable waste for about 2000 samples.

Management of huge amount of trash has become a critical challenge. Involvement of technology for smart waste management is viewed as an effective solution in order to mitigate this issue as increasing rate of waste is unprecedented. This invention proposes an automatic waste management method used on machine learning where the waste is segregated into organic waste and inorganic waste once collected by the trash bin. Conventionally human are involved in segregation of waste which leads to several diseases also such method is not efficient. Incineration of improperly segregated waste generates gases such as carbon monoxide affecting the ozone layer. The proposed trash bin is equipped with sensor system which is able to segregate the waste in an intelligent way along with report generation of waste collected. Machine learning technique along with image recognition classified the trash based on the input from sensors. The prototype is found to be efficient in segregating biodegradable and non-biodegradable waste for about 2000 samples.

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**Number of institute Review and Research paper collaboration**

Title	Year	Journal name
Experimental study of Castor oil From Plant seeds Of Ricinus Communis: Extraction and Chemical Modification	2024	Journal of Chemical Health Risks
Lantana camara L.: Exploring its ethanobotanical , Phytochemical, pharmacological , and Toxicological Profiles	2024	YMER
Ameliorative potential of methanolic twigs and leaves extract of Nyctanthes Arborescens on Diabetes induced neuropathic pain in Albino wistar rats.	2023	European Chemical Bulletin
Phytochemical and therapeutic potential of herbal cognitive enhancer	2023	Journal of Natural Remedies
Nanosuspension as a promising Drug Delivery approach for the antidiabetic drug: An inclusive review on technology and future aspects.	2023	AIP Conference Proceedings
Critical review of current animal models of nephrotoxicity	2023	International Journal of Pharmacy and Life Sciences
Review on Diabetic foot ulcers its Pathogenesis, epidemiology and emerging treatments <sup>1</sup>	2022	YMER
An update on Biodegradable microspheres loaded with Naltrexone	2020	International Journal of Pharma Research and Health Sciences
Antidiabetic activity of chemically synthetic compound on Alloxan Induced Diabetes in mice	2020	International Journal of Pharma Research and Health Sciences
Marketing Regulation of Drugs in India	2020	Science, Technology and Development

*[Handwritten signature]*  
 Homipur (P) P3-177031

Method Development and Validation for the Simultaneous estimation of in Ambroxol and Levocetirizine Bulk and Pharmaceutical Dosage form by using RP-HPLC method	2020	International Journal of Research in Pharmacy and Chemistry
Method Development and Validation for the Simultaneous estimation of in Atorvastatin and Fenofibrate Bulk and Pharmaceutical Dosage form by using RP-HPLC method	2020	International Journal of Research in Pharmacy and Chemistry
Formulation and Evaluation of Mirtazapine Oral Thin Film	2020	International Journal of Research in Pharmacy and Chemistry
Recent advances in particle characterization and its application in pharmaceutical industry	2020	International Journal of Pharma Research and Health Sciences


  
 Director  
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# Experimental Study of Castor Oil from Plant Seed *Ricinus Communis*: Extraction and Chemical Modification

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## KEYWORDS

Castor beans,  
Specific gravity,  
pH, Acid value,  
Viscosity,  
Saponification  
Value.

## ABSTRACT:

**Background:** In this research we have prepared sulphonated castor oil or Turkey red oil, by the continuous addition of concentrated sulphuric acid to castor oil with continuous stirring for 3 h at a temperature of 25-30 °C. Since this continuous reaction is stoichiometry, there is no formation of waste product, thus eliminating any consequences related pollution.

**Objectives:** This research paper is carried out by experimental study of castor oil, through extraction of oil from castor beans, characterization and chemical modification of extracted castor oil.

**Methods:** The n-hexane or petroleum ether was used as a solvent for the extraction process. After extraction the castor oil was purified through degumming, neutralization and bleaching process using adsorbent activated clay. The extracted oil was chemically modified to produce Turkey red oil with the help of sulphonation reaction.

**Results:** The physico-chemical analysis revealed that all the physico-chemical properties of the extracted oil such as pH, acid value, iodine value, saponification value and specific gravity, viscosity, have almost similar values. In case of sulphonated castor oil the parameters like specific gravity, pH, iodine value, and acid value shows slight increase with respect to the standard values as per Indian Pharmacopoeia (IP), whereas viscosity value has slight decrease. Remaining all parameters like reaction time, color of product and solubility were similar.

**Conclusions:** The synthesized sulphonated castor oil (Turkey red oil) could be valuable as additive in food industry (as excipient or additives), cosmetics (as a pigment-remover), and in pharmaceutical industries as coating agent, polymer, antifungal agent, laxative, immunity booster, etc.

## 1. Introduction

Vegetable oils [1] play an important role in the production of the national economy because seed oils bring great benefits to human existence and reduce the burden on people's lives today. Castor seed oil belongs to the vegetable oil family [2]. Generally, vegetable oils or fats are common plant-derived lipid substances that are physically found to be in a liquid state at room

temperature, whereas fats are in a solid state at room temperature [3]. Vegetable oils are composed of triglycerides that do not contain glycerin in their structure [4]. Many commodities from plant sources such as soybeans [5], rapeseed [6], palm [7], corn [8], jatropha [9], and castor seeds [2] have been considered petroleum candidates. Among these sources, castor oil is a potentially promising raw material as it is known

# Lantana camara L.: Exploring Its Ethnobotanical, Phytochemical, Pharmacological, and Toxicological Profiles

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## Abstract

In the present era, researchers are focusing on medicinal plant research throughout the world as medicinal plants are an important and cheap source of drugs and have a long history. Most of the remedies in the traditional system were taken from plants due to lack of technology, and using plants as medicines were proven to be useful. *Lantana camara* L. (Verbenaceae) is an aromatic plant as well as a rich source of medicinal compounds. From decades the plant is used to treat many diseases i.e., malaria, fever, cold and cough etc. Several essential phytochemicals have been isolated from *L. camara* L., including triterpenoids, flavonoids, alkaloids, saponins, steroids, and tannins. Moreover, it is also known as an essential oil-producing plant, and the essential oil is available in the market known as Lantana oils. Thus due to the above mentioned economic as well as medicinal properties of *L. camara* L.; there is a need of a comprehensive report on the ethnobotanical, phytochemical, pharmacological and toxicological aspects of *L. camara* L. This review will be useful for researchers working in the field of genomics, metabolomics and molecular studies of medicinal plants.

Keywords: Medicinal plant, pharmacological activity, Phytochemical, *Lantana camara*

## 1. Introduction

Linnaeus recognized the genus *Lantana camara* L., which belongs to the family of plants known as Verbenaceae, in the year 1753 as a plant that had medicinal, ornamental, and essential oil-producing properties. Six of its seven species have been discovered in the Americas, while the seventh has been discovered in Ethiopia [1]. Its origins can be traced back to South America, but it is now present in nearly fifty countries throughout the globe, with some of those countries even permitting its production [2]. The plant is commonly used as a decorative element in gardens and is also known as sagebrush and red sage [3]. At elevations of up to two thousand metres, *L. camara* can be found growing in regions that are classified as either tropical, subtropical, or temperate [4].

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AMELIORATIVE POTENTIAL OF METHANOLIC TWIGS AND LEAVES EXTRACT OF *NYCTANTHES ARBOR-TRISTIS* ON DIABETES INDUCED NEUROPATHIC PAIN IN ALBINO WISTAR RATS

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ABSTRACT

**Background:** *Nyctanthes arbor-tristis* is a small ornamental tree renowned for its anti-diabetic activity. Being a rich source of all useful phytoconstituents, traditionally, it's also used in treating many other diseases. However, its role in curing diabetic neuropathy is still not clear. The main objective of this study is to investigate the potential effect of *Nyctanthes arbor-tristis* against streptozotocin (STZ)-induced diabetic neuropathy in rat.

**Method:** The study was planned with 36 animals and 6 animals in each group. Group 1 (Control group), Group 2 (Diabetic Control), Group 3 (Active Control), Group 4 (Test Group-1), Group 5 (Test Group-2) & Group-6 (Test Group-3). STZ (50mg/kg) was given intraperitoneally to induce diabetes in Albino wistar rats. After 21 days animals' were assessed for diabetic neuropathy. Rats with diabetic neuropathy were treated for 3 weeks with methanolic extract of *Nyctanthes arbor-tristis* leaves & twigs (100,200,400mg/kg p.o.). Glibenclamide (10mg/kg p.o.) and amitriptyline (10mg/kg i.p.) were used as standard drug. Treatment outcomes were based on metabolic, physiological & biochemical changes.

**Result:** Treatment with methanolic extract of *Nyctanthes arbor-tristis* significantly decreases blood sugar levels and neuropathic pain as compared to the disease control.



# Phytochemical and Therapeutic Potential of Herbal Cognitive Enhancer

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## Abstract

Memory is the most significant factor in distinguishing one person from another, as it is necessary to recognise one's own self. The brain can encode, store, and retrieve information using three different types of memory. Individuals who lack these basic forms of memory are unable to create personal relationships, acquire new knowledge, and perform basic everyday duties. Memory refers to a person's ability to encode, store, retain, and recall knowledge and past events in his or her brain. Memory gives a person the ability to learn from and adapt to previous experiences, as well as the ability to recall previously taught facts, skills, and habits. Today, poor memory, weak recall, and low retention are all typical issues. Memory deteriorates primarily because of stress and exhaustion. Memory loss, often known as age-related memory impairment, is frequent in those over the age of 40. This could be linked to the loss of hormones and proteins (growth factors) that repair brain cells as people get older. Herbs were employed to improve memory power in India throughout ancient times. Indian and Chinese cultures developed many traditional medicines from herbs to treat diminishing cognition, reverse memory loss, and improve learning power. Nootropic herbs are known for their brain-acting herbs and smart medications, which are derived from their isolated ingredients and aid to improve blood circulation in the brain. The focus of this review is on natural agents and herbs that work as memory enhancers. By using one of the herbs at a time, one can improve his or her memory.

**Keywords:** Acetylcholine, Alzheimer's Disease, Herbs, Memory, Nootropics

## 1. Introduction

Memory is a typical learning ability that indicates long-term changes in the nervous system caused by short encounters. Short-term memory and long-term memory are the two types of memory. There are a variety of drugs available in the market for maintaining memory or enhancing memory but some of them have huge side effects also especially in the case of synthetic drugs. *Bacopa monniera*, also called *Bacopa monnieri*, *Herpestis monnieri*, and *Brahmi*, has been used in Ayurvedic medicine for millennia<sup>2</sup> in the case of study about memory the brain is the most important, the forebrain, midbrain,

and hindbrain are the three fundamental sections of the human brain. It includes the hypothalamus, thalamus, cerebellum, cerebral cortex, hippocampus, midbrain, and several other glands, with the Hippocampus being important for memory. Memory is a very significant aspect for recalling situations, information, and experiences, but because of certain conditions like stress, negative emotions cause various illnesses such as amnesia, memory loss, high blood pressure, anxiety, and several serious life treatments in that individuals can record events, information, and stimuli over a time. Thus, over recent decades, herbs and natural cures are very useful in the promotion of intelligence such as *Alethya* herbs related

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# Nanosuspension as a Promising Drug Delivery Approach for the Antidiabetic Drug: An Inclusive Review on Technology and Future Aspects

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**Abstract.** Nanosuspension is a part of nanotechnology which is a submicron colloidal dispersion of pharmaceutically active ingredients in a liquid phase having a size range below 1  $\mu\text{m}$ , and which is stabilized by surfactants and polymers. Most of the newly developed drugs are water-insoluble, show poor bioavailability. Glimepiride is an anti-diabetic drug that belongs to the sulfonylurea class, which is used to treat type II diabetes mellitus. Glimepiride increases insulin secretion by acting on the  $\beta$ -cells of the pancreas. Glimepiride binds to sulphonylurea receptors which are present on  $\beta$ -cell on the plasma membrane, which close the ATP-sensitive potassium channel leading to depolarization of the cell membrane. So there is the opening of voltage-gated calcium channel due to which there is an influx of calcium ions causes the secretion of the preformed insulin molecule. It is categorized under biopharmaceutical classification system class II drug, having poor solubility and high permeability. In this review, different methods were studied to formulate the nanosuspension of glimepiride to increase the solubility of glimepiride.

**Keywords-**Glimepiride, Nanosuspension, Anti-Diabetic, Solubility, Polymers, Drug Deliver

## INTRODUCTION

Diabetes mellitus (DM) is a chronic, life-long endocrine, and metabolic disorder that occurs due to a defect in insulin secretion and insulin action. Insulin is the hormone that is produced by a specialized cell called  $\beta$ -cells present on the organ pancreas. Normally our body breakdown the carbohydrates and sugars which convert into glucose molecule and act as fuel for our body, but for utilization of glucose, hormones insulin is required. The deficiency of insulin leads to an increase in the blood glucose level in a body along with disturbances in the metabolism of carbohydrates, fats, and proteins. If diabetes is uncontrolled then it leads to severe diabetic complications like retinopathy, neuropathy, and various cardiovascular complications.

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Critical review of current animal models of nephrotoxicity

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Abstract

Nephrotoxicity occurs when the renal blood is exposed to a nephrotoxic drug or toxin that causes damage to the kidneys. This may lead to acute kidney failure. In this condition the kidney function deteriorates and may lead to chronic kidney failure. If unchecked, the kidney failure may lead to the death. When kidney damage occurs, the kidney fails to remove excess urine and waste leading to retention of nitrogenous waste products of metabolism in the blood. The biochemical parameters commonly used to evaluate kidney function are serum urea, creatinine, ure acid, potassium, sodium and chloride. The animal models play a very important role for understanding the mechanism of nephrotoxicity and development of effective therapy for its optimal management. Since there are many pathways for induction of renal failure, therefore a large number of animal models have been developed to produce the clinical conditions of renal failure. The present review will help to find an appropriate model to evaluate the new drug or molecule that can protect from nephrotoxicity.

Keywords: Animal, Model, Nephrotoxicity

Introduction

Nephrotoxicity can be defined as a renal disease or dysfunction produced by medication of drugs and other environmental factors and it is directly related to the (ARF) Acute renal failure (Lakshmi and Kiran, 2012) and (AKI) Acute renal injury is a reversible loss of function of renal cells in kidney that result in rapid fall in glomerular filtration rate (GFR) as well as retention of minerals and water (C. Late, 1996).

It has been found that drugs are responsible for 20% of all cases for (ARF) acute renal failure. Drug like antibiotics, anticancer, anti-inflammatory, NSAIDS, aminoglycoside exhibit and adverse effect on renal function and cause lose of immune system responses in the body. So

in recent time, interest in drug-induced nephrotoxicity has been increased with increasing number of drugs to affect the renal cells (Ganguli and Prakash, 2003; Ogunnowo, 2015).

Most of the drugs are found to be harmful nephrons produce one or more pathogenic mechanism in the kidney. Pathological conditions include: hemodynamic, changes tubular cells toxicity, nephritis syndrome, urinary tract infection, chronic intestinal nephritis, and (Singh et al., 2014).

The present comprehensively required the methodology information regarding various animal models of nephrotoxicity.

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## REVIEW ON DIABETIC FOOT ULCERS ITS PATHOGENESIS, EPIDEMIOLOGY AND EMERGING TREATMENTS

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### Abstract

Diabetic foot complications aren't exactly a hot topic. Diabetic nephropathy, heart attack and stroke aren't as common as diabetic foot complications although they are still the most common complications of diabetes. As a result of diabetic foot infections and lesions, the majority of diabetics are hospitalised and require long-term hospitalizations. In the case of diabetic foot ulcers (DFUs), which can lead to amputations of the limb, as well as significant social, psychological, and economic effects. A DFU can develop in up to 25% of diabetic people throughout the course of their lives, and more than half of those patients become infected. As a result, in order to avoid undesirable results, infection and ulcer recovery must be carefully managed. Doctors and patients alike should be aware of the latest developments in DFU treatment. An overview of the current assessment and treatment options for DFUs is provided here in order to assist clinicians in making educated decisions, including molecular and regenerative medicine; energy-based antimicrobial therapies; plant extracts; antimicrobial peptides; growth factors; devices; and nanomedicine.

**Keywords:** Diabetic foot ulcers, Antimicrobial activity, Neuropathy, Therapeutic treatment

  
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Review Article

## An Update on Biodegradable Microspheres Loaded with Naltrexone

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ABSTRACT

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The use of biodegradable polymers for microencapsulation of naltrexone using techniques like solvent evaporation is the need of the hour. The naltrexone microspheres for the preparation of matrix devices will help to understand the microencapsulation. Nowadays, the emphasis is being laid on the development of controlled release dosage forms. Interest in this technology has been increasing steadily over the past few years. Although the oral administration of drugs is a widely accepted route of drug delivery, the bioavailability of drugs often varies as a result of gastrointestinal absorption, biodegradation by the first-pass effect. There are many ways of achieving long-term drug delivery of parental origin; biodegradable microspheres are one of the better means of controlling the release of the drug over a long time. Likewise, emulsions, stability on a long-term basis, and in suspensions, rheological changes during filling, injecting, and storage possess a limiting factor. The extent of release rate in these systems cannot be tailor-made to the needs of the patient. Injectable formulations based on biodegradable microspheres can overcome these problems and can control the release of the drug over a predetermined period. In the order of days to weeks and even to the months. The effect of different process parameters, such as drug/polymer ratio and stirring rate during the preparation of microspheres, on the morphology, size distribution, and in vitro drug release of microspheres. The review mainly covers various molecules encapsulated in biodegradable microspheres for parenteral delivery.

**Keywords:** Biodegradable Microspheres, Naltrexone, polymers.

### 1. INTRODUCTION

Microspheres are characteristically free-flowing powders consisting of proteins or synthetic polymers, which are biodegradable and ideally having a particle size less than 200  $\mu\text{m}$  [1] and which can be injected by 18 or 20 number needle [2]. The drug absorption and side effects due to irritating drugs against the gastrointestinal mucosa are improved because the biodegradable microsphere is made up

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Review Article

## Antidiabetic Activity of Chemically Synthetic Compound on Alloxan Induced Diabetes in Mice

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ABSTRACT

Alloxan a nitrosourea derivative is one of the most universally accepted diabetogenic agents. The selective  $\beta$ -cell toxicity of alloxan depends on the degree of DNA alkylation and subsequent activation of poly ADP ribose synthetase in the base excision repair pathway. This stimulated activation of poly ADP ribose synthetase triggers exhaustion of  $NAD^+$  in the pancreatic islets that will lead to  $\beta$ -cell death through necrosis. In the present study, the objective was to study the evaluation of the antidiabetic activity of the chemically synthetic compound on alloxan-induced diabetes in mice. Chemically synthetic compounds were given to the mice after the administration of alloxan and glucose levels were estimated using a semi-auto analyzer at a range of 505/670nm. The hyperglycemic levels due to alloxan administration lead to the development of diabetes. Treatment with chemically synthetic compounds significantly lowers the elevated glucose levels in alloxan-induced diabetic mice. Hence compound number 1321,051S2,0717 has potential antidiabetic activity. To explore further exhaustive study is required for the mechanism behind the anti-diabetic activity of their chemical compounds.

**Keywords:** Alloxan, diabetogenic agent, antidiabetic activity, hyperglycaemic levels.

### 1. INTRODUCTION

Diabetes mellitus (DM), commonly referred to as diabetes, is a group of metabolic diseases in which there are high blood sugar levels over a prolonged period. Symptoms of high blood sugar include frequent urination, increased thirst, and increased hunger. If left untreated, diabetes can cause many complications. Acute complications include diabetic ketoacidosis and nonketotic hyperosmolar coma. Serious long-term complications include cardiovascular disease,

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## MARKETING REGULATION OF DRUGS IN INDIA-REVIEW

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### ABSTRACT

The pharmaceutical industry is one of the most regulated industries; no drug would be marketed without the teams of medical researchers and other specialists who worked to make sure it receives regulatory authority's approval. A regulatory authority is an agency of the government that is responsible for protecting public health in safety aspects. Approval of the drug product for import, manufacturing and marketing in India, its demonstration for safety and efficacy in humans is essential. The Rules 122A, 122B and 122D, 122 DA, 122DAA, 122E and Appendix I, IA and VI of Schedule Y of the Drugs & Cosmetics Act, 1945, describes the information/data required for approval of clinical trial and/or to import, manufacture, or market any new drug in the country. Marketing of drug products is major concern issue now days. So every country has its own guidelines and own regulatory bodies for any drug approval and for marketing of the drug products. India is emerging as an important player in pharmaceutical field, but to maintain this growth and to emerge as a key player on the global market, a strong and supportive regulatory framework is essential or the advantage gained so far would be lost

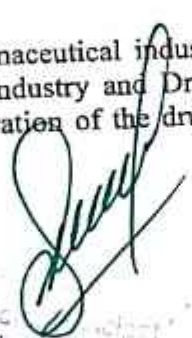
### INTRODUCTION

The current global economic climate is placing tremendous pressure on pharmaceutical companies to maximize the value of their assets. Sponsors with novel therapies seek to speed up time-to-market and introduce their products in multiple countries as quickly as possible. Companies with established products want to increase sales by expanding into additional markets to offset impending patent expirations. Confronted with these marketplace challenges, no pharmaceutical company can afford first-round submission failures or other regulatory delays that prevent its products from reaching their targeted markets in a timely fashion.

A proactive, regulatory filing strategy helps any pharmaceutical company large or small gets the most from its product portfolio by accelerating global product introductions while avoiding regulatory pitfalls. By understanding the differences in regulatory processes for countries around the world, and taking advantage of the Common Technical Document defined by the International Conference on Harmonization, pharmaceutical companies can significantly improve the speed and efficiency of preparing regulatory submissions while reducing the risk of costly delays.

### Drug Regulatory Affairs:

Regulatory Affairs in a Pharmaceutical industry, is a profession which acts as the interface between the pharmaceutical industry and Drug Regulatory authorities across the world. It is mainly involved in the registration of the drug products in respective countries prior to their marketing.

  
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## METHOD DEVELOPMENT AND VALIDATION FOR THE SIMULTANEOUS ESTIMATION OF IN AMBROXOL AND LEVOCETIRIZINE BULK AND PHARMACEUTICAL DOSAGE FORM BY USING RP-HPLC METHOD

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### ABSTRACT

A simple, accurate, economical and reproducible reverse phase high performance liquid chromatographic (RP-HPLC) method was developed and validated for the determination of Ambroxol and Levocetirizine in bulk and pharmaceutical formulations. The separation was achieved on a phenomenex C18 column (150 × 4.6 mm i.d, particle size of 5μ) using a mixture of 0.01M Potassium dihydrogen orthophosphate (pH 5.0 ± 0.05) & Acetonitrile (60:40 v/v) as mobile phase in an isocratic elution mode, at a flow rate of 1 ml/min. The detection was monitored at 230 nm. The retention time of was found to be around 3.60min (Levocetirizine) 4.68min (Ambroxol) respectively. Excellent linearity range was found between 12-120 μg/ml for Ambroxol and 1-10 μg/ml for Levocetirizine. The method was validated with respect to linearity, robustness, precision and accuracy and was successfully applied for the simultaneous determination of Ambroxol and Levocetirizine from the combined dosage formulation.

### INTRODUCTION

Ambroxol (AMB) is chemically Trans-4-(2-Amino-3,5-dibromobenzylamino)-cyclohexan-1-ol AMB is Mucolytic, respiratory agent and used in the treatment of the upper respiratory tract diseases. With its mucolytic activity, AMB facilitates the breakdown of acid mucopolysaccharide fibres in the mucous thus making it thinner and less viscous for expectoration. As well it stimulates the production of pulmonary surfactant, a substance found to play a major role in the lung defense mechanism and thereby further protect it against inflammation and infection. Levocetirizine (LCTZ) is chemically (2-(4-[(R)-1-chlorophenyl] (phenyl)methyl]-piperazin-1-yl) ethoxy)acetic acid. Levocetirizine is a third generation non-sedative antihistamine developed from the second generation

antihistamine cetirizine. It is the R-enantiomer of the cetirizine which functions to block histamine receptors. More specifically, LCTZ does not prevent the actual release of histamine from mast cells but prevents its binding to its receptors. This in turn prevents the release of other allergy chemicals and increases the blood supply to the area providing relief from the symptoms of hay fever. Literature survey revealed that AMB and LCTZ has been estimated individually or in combination using UV, HPLC and HPTLC. The present work describes the development of a simple, precise, accurate and reproducible spectrophotometric method for the simultaneous estimation of AMB and LCTZ in Pharmaceutical dosage form<sup>1-14</sup>.

## METHOD DEVELOPMENT AND VALIDATION FOR THE SIMULTANEOUS ESTIMATION OF IN ATORVASTATIN AND FENOFIBRATE BULK AND PHARMACEUTICAL DOSAGE FORM BY USING RP-HPLC METHOD

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### ABSTRACT

A simple, accurate, economical and reproducible reverse phase high performance liquid chromatographic (RP-HPLC) method was developed and validated for the determination of Atorvastatin and Fenofibrate in bulk and pharmaceutical formulations. The separation was achieved on a Thermo Scientific BDS C18 column (250 × 4.6 mm i.d 5μm) using a mixture of 25mM Sodium acetate (pH adjusted to 5.0 With 1.0 M Glacial acetic acid): Acetonitrile (10:90 % v/v) as mobile phase in an isocratic elution mode, at a flow rate of 1 ml/min. The detection was monitored at 254 nm. The retention time of Atorvastatin and Fenofibrate was found to be around 2.672±0.05 min (Atorvastatin) 4.971±0.07 min (Fenofibrate) respectively. Excellent linearity range was found between 1-5 μg/ml for Atorvastatin and 1-5 μg/ml for Fenofibrate. The method was validated with respect to linearity, robustness, precision and accuracy and was successfully applied for the simultaneous determination of Atorvastatin and Fenofibrate from the combined dosage formulation.

### 1. INTRODUCTION

Atorvastatin (ATOR) is chemically 7-[2-(4-fluorophenyl)-3-phenyl-4-(phenyl carbamoyl)-5-(propan-2-yl)-1H-pyrrol-1-yl]-3,5-dihydroxyheptanoate. Atorvastatin is a HMG-CoA reductase inhibitor acts as anti-hyperlipidemic drug clinically effective drug in the treatment of Hypercholesterolemia. It is soluble in methanol, ethanol, and acetonitrile. Practically insoluble in water. Fenofibrate (FENO), propan-2-yl-2-[4-[(4-chlorophenyl)carbonyl]phenoxy]-2-methylpropionate is a widely used anti-cholesteremic agent as PPAR receptor inhibitor. Atorvastatin and Fenofibrate is available in combined dosage forms as film coated tablets (LIPIKIND). Each tablet contains 10mg of Atorvastatin and 160 mg of Fenofibrate. It is used for the treatment of Hypercholesterolemia.

For this combination derivative spectroscopic methods and reverse phase liquid chromatographic methods are reported. However, there is no work reported on combination of these drugs by standard addition simultaneous equation method. Hence fast, simple, and accurate and validated spectrophotometric method was developed by standard addition of both drugs by applying simultaneous equation method, the developed method was simple, accurate, precise, specific, sensitive and reproducible which can be efficiently and easily applied to pharmaceutical dosage forms.

*(Signature)*  
 Director, College of Pharmacy  
 Hamirpur (H.P.)-177001

## FORMULATION AND EVALUATION OF MIRTAZAPINE ORAL THIN FILM

Sanjay Kumar<sup>1\*</sup>, Darsh Gautam<sup>2</sup> and Poonam Talwan<sup>2</sup>

<sup>1</sup>Gautam College of Pharmacy Hamirpur,  
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Hamirpur, Himachal Pradesh, India.

### ABSTRACT

The aim of this present investigation was to develop a rapid dissolving oral polymeric film, using the solvent casting method, having good mechanical properties, instant disintegration and dissolution, an acceptable taste in the oral cavity. Mirtazapine is a tetracyclic antidepressant drug mainly in patients affected by depression. The present investigation was undertaken with the objective of formulating of the Mirtazapine rapid dissolving oral thin films allowing fast reproducible drug dissolution in oral cavity thus bypassing first pass metabolism, to enhance the convenience and compliance by the elderly and pediatric patients. Nine formulations of films with drug were prepared using both natural and synthetic polymers like HPMC E6 and Sodium Alginate. Propylene glycol was used as plasticizers. Citric acid was used as a saliva stimulating agent. Synthetic Aspartame was used as sweetening agent. The resultant films were evaluated for weight variation, assay, content uniformity, folding endurance, thickness, tensile strength, percent elongation, surface pH, *in vitro* disintegration and *in vitro* dissolution. The F4 formulation showing the best results, the disintegration time is only 3.5 second, and was releasing upto 100.8% of drug within 20 minutes.

**Keywords:** Mirtazapine, solvent casting method, Oral thin film and HPMC E6.

### INTRODUCTION

More recently, fast-dissolving films are gaining interest as an alternative to fast-dissolving tablets to definitely eliminate patients' fear of choking and overcome patent impediments. Fast-dissolving films are generally constituted of plasticized hydrocolloids or blends made of thereof that can be laminated by solvent casting or hot-melt extrusion. The oral route is one of the most preferred routes of drug administration as it is more convenient, cost effective, and ease of administration lead to high level of patient compliance. The oral route is problematic because of the swallowing difficulty for pediatric and geriatric patients who have fear of choking. Patient convenience and compliance oriented research has resulted in bringing out safer and newer drug delivery systems. Recently, fast dissolving drug delivery systems have started gaining

popularity and acceptance as one such example with increased consumer choice, for the reason of rapid disintegration or dissolution, self-administration even without water or chewing.

Mirtazapine is a tetracyclic antidepressant used mainly in patients affected by depression<sup>1,2</sup>. The novel antidepressant mirtazapine has a dual mode of action. It is a noradrenergic and specific serotonergic antidepressant (NaSSA) that acts by antagonizing the adrenergic alpha2-autoreceptors and alpha2-heteroreceptors as well as by blocking 5-HT<sub>2</sub> and 5-HT<sub>3</sub> receptors<sup>3,4</sup>. It enhances, therefore, the release of nor epinephrine and 5-HT<sub>1A</sub>-mediated serotonergic transmission. Increased activation of the central 5-HT<sub>1A</sub> receptor is thought to be a major mediator of efficacy of Mirtazapine. This dual mode of action may conceivably be responsible for mirtazapine's

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Review Article

# Recent Advances in Particle Characterization and its Application in Pharmaceutical Industry

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<sup>1</sup> Department of Pharmaceutical and Health Sciences Career Point University, Hamirpur, Himachal Pradesh, India.

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ARTICLE INFO

ABSTRACT

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Particle size characterization is a area of analytical chemistry which is required in a great number of industries where the product's end-use is affected by particle size distribution. The Particles can be in the form of solids, liquids, or gases or an aggregation of molecules as in the case of micelles. Particularly in some instances, especially in the area of pharmaceuticals finished forms, analyses are done to ensure the absence of particulate matter in the product. Particle size characterization helps in monitoring the environment accurately for particulate matter as well as particle size distributions, concentrations for full assessment of health hazard substances. The growing interest in particle size characterization and analysis, especially among analytical chemistry researchers, the subject is mainly emphasized on the application. The number of techniques available for particle size analysis is confounding. More than 250 methods have been reported by the analytical researchers for understanding and assessing the particle size. Because of the broad scope of this area in terms of techniques and analytical approaches, products, and size ranges major technique areas have been discussed, which have received the most attention in recent years: radiation scattering and chromatographic techniques. The new and growing areas are rapidly becoming techniques of choice especially for the rapid analysis of submicrometer particles.

**Keywords:** Particle Size Characteristics, Analytical Technique, Size, Chromatographic techniques

## 1. INTRODUCTION

Particle size characterization techniques currently in use within pharmaceutical industry and academia. It assumes no prior knowledge of particle characterization theory or instrumentation and should be ideal for those new to particle

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Faculty exchange with in group		
Name	Year	Subject
Pooja	2019	Rem.Math
Ankita Thakur	2020	Computer application
Meenakshi Pathania	2020	communication skill
Nisha	2021	Computer application
Meenakshi Pathania	2021	communication skill
Radhika	2021	Rem.Math
Pankaj kumar	2022	Computer application
Radhika	2022	Rem.Math
Radhika	2023	Computer application
Radhika	2023	Rem.Math
Radhika	2023	communication skill
Riya	2023	Rem. Math
Pgreen	2024	communication skill
Deepika		

*Deepika*  
 Head of Department  
 Department of Pharmacy  
 College of Pharmacy  
 Pimpri (M.P.)-411001

**Gautam College of Pharmacy, Hamirpur**

**B. Pharmacy Time Table Academic Session Aug.2019- Dec.2019:**

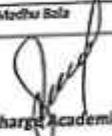
Day	Semester	9:30-10:30 AM	10:30-11:30 AM	11:30 AM-12:30PM	12:30-1:00PM	1:00-2:00 PM	2:00-3:00 PM	3:00-4:00 PM	4:00-5:00 PM
Monday	B-1	Rem. Bio.(AM)/Rem. Math (PJ)	P'ceutics-I (SS)	HAP-I (AM)	LUNCH	PIC-I LAB (MB) & (SS)			
Tuesday	B-1	Rem. Bio.(AM)/Rem. Math (PJ)	P'ceutics-I (SS)	HAP-I (AM)		P'ceutics-I LAB (SS) & (MB)			
Wednesday	B-1	HAP-I (AM)	P'ceutics-I (SS)	PA-I (SK)		HAP-I LAB (AM) & (SK)			
Thursday	B-1	Comm. Skill (SS)	PIC (MB)	PA-I (SK)		PA-I LAB (AM) & (SK)			
Friday	B-1	PIC (MB)	PA-I (SK)	Comm. Skill (SS)		Rem. Bio. LAB (AM)/Rem. Math theory (P)	library	HAP-I (AM)	
Saturday	B-1	PIC (MB)	PA-I (SK)	P'ceutics (SS)		Comm. Skill LAB (SS) & (SK)	library	PIC (MB)	

B. Pharmacy Ist Sem.	
Abbreviation	Subject Name
Rem. Bio. / Rem. Math	Remedial Biology / Remedial Math
PA-I	Pharmaceutical Analysis-I
HAP-I	Human anatomy & physiology-I
PIC	Pharmaceutical Inorganic chemistry
P'ceutics-I	Pharmaceutics-I
Comm. Skill	Communication skills

Subject teacher	AM	SS	SK	PJ	MB
	Ashu Moudgil	Shalu Shukla	Sanjay Kumar	Pooja	Madhu Bala

  
Director

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In-charge Academics



**Gautam College of Pharmacy, Hamirpur**


**B. Pharmacy Time Table Academic Session Jan, 2020- June, 2020:**

Day	Semester	9:30-10:30 AM	10:30-11:30 AM	11:30 AM-12:30PM	12:30-1:00PM	1:00-2:00 PM	2:00-3:00 PM	3:00-4:00 PM	4:00-5:00 PM
Monday	B-2	Patho (AM)	Biochem (SS)	HAP-II (AM)	LUNCH	POC-I LAB (MB) & (SS)			
Tuesday	B-2	Patho (AM)	Biochem (SS)	HAP-II (AM)		Biochem. LAB (SS) & (AM)			
Wednesday	B-2	Patho (AM)	Biochem (SS)	HAP-II (AM)		HAP-II LAB (AM) & (SK)			
Thursday	B-2	POC-I (MB)	CA in pharmacy (AT)	EVS (SK)		CA In Pharmacy Lab (AT)	Biochem (SS)	Patho (AM)	
Friday	B-2	POC-I (MB)	CA in pharmacy (AT)	EVS (SK)		POC-I (MB)	HAP-II (AM)	library	Patho (AM)
Saturday	B-2	POC-I (MB)	CA in pharmacy (AT)	EVS (SK)		Biochem (SS)	library	POC-I (MB)	HAP-II (AM)

B. Pharmacy IInd Sem.	
Abbreviation	Subject Name
Patho	Pathophysiology
Biochem	Biochemistry
HAP-II	Human anatomy & physiology-II
POC-I	Pharmaceutical organic chemistry-II
CA in Pharmacy	Computer application in Pharmacy
EVS	Environmental Sciences

Subject teacher	AM	SS	SK	AT	MB
	Akhil Moodgil	Shalu Shukla	Sanjay Kurpar	Anita Thakur	Medha Bala

  
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**Gautam College of Pharmacy, Hamirpur**  
**Pharmacy Time Table for the academic Session Dec, 2020 to Mar, 2021**

DAY	SEM/ YEAR	9:30-10:30 am	10:30-11:30am	11:30-12:30pm	12:30-1:30pm	1:30-2:00pm	2:00-3:00pm	3:00-4:00pm	4:00-5:00pm
Monday	B1	Practical Batch-A P' analysis (PDM/AM)		Practical Batch-B PIC (MB/SS)			P' analysis (PD)	HAP I (AM)	P' oestics I (KV)
	B3	Practical Batch-A P' Micro (NS)		Practical Batch-B P' Engg (KV)			POC II (MB)	PP (SS)	P' Micro (NS)
Tuesday	B1	Practical Batch-A PIC (MB/SS)		Practical Batch-B P' analysis (PDM/AM)			P' analysis (PD)	HAP I (AM)	P' oestics I (KV)
	B3	Practical Batch-A P' Engg (KV)		Practical Batch-B P' Micro (NS)			P' Engg (KV)	PP (SS)	P' Micro (NS)
Wednesday	B1	Practical Batch-A P' oestics I (KV/MB)		Practical Batch-B HAP I (AM/PD)			P' analysis (PD)	HAP I (AM)	P' oestics I (KV)
	B3	Practical Batch-A PP (SS)		Practical Batch-B POC (SH)			P' Engg (KV)	POC II (MB)	P' Micro (NS)
Thursday	B1	Practical Batch-A HAP I (AM/PD)		Practical Batch-B P' oestics I (KV/MB)			PIC (MB)	RB(VK) Lab	
	B3	Practical Batch-A POC (SH)		Practical Batch-B PP (SS)			P' Engg (KV)	PP (SS)	POC II (MB)
Friday	B1	Practical Batch-A Comm, Skill (MP)		P' oestics I (KV)	HAP I (AM)		PIC (MB)	Comm, Skill (SK)	RB(VK)/RM(AK)
	B3	SCA Batch-B		Library					
Saturday	B1	P' analysis (PD)	PIC (MB)	SCA Batch-A		PIC (MB)	Comm, Skill (SK)	RB(VK)/RM(AK)	
	B3	PP (SS)	SCA		P' Micro (NS)				SCA

Subject Teacher							
Dr. JS	Dr. Jagdish Badhan	SK	Ranjay Kumar	KV	Kumari Varsha	PD	Prityanka Devi
SS	Shalu Shukla	AK	Arju Kumar	AM	Ahli Moudgil	SH	Shivaji
MB	Madhua Bala	NS	Nisha Sunkhyan	VK	Dr. Vinay Kumar	SG	Meenakshi Pathania

Subjects			
B. Pharmacy IIIrd Sem.		B. Pharmacy 1st Sem.	
Abbreviation	Names	Abbreviation	Names
P' Engg	Pharmaceutical Engineering	PA	Pharmaceutical analysis
POC-II	Pharmaceutical organic chemistry	PIC-I	Pharmaceutical inorganic chemistry
PP	Physical Pharmacy	Comm. skills	Communication skills
P' micro	Pharmaceutical Microbiology	Remedial maths	Remedial biology/ Remedial mathematics
		P' Oestics-I	Pharmaceutics-1
		HAP-I	Human Anatomy & Physiology-I

*[Signature]*  
Director

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Prepared & checked by

*[Signature]*  
Tachy Academics

Gausham College of Pharmacy, Haridwar

B.Pharmacy Time Table for the Academic Session March 2021 to August 2021

DAY	SEM/ YEAR	9:30-10:30 am	10:30-11:30am	11:30-12:30	12:30-1:00pm	1:00-2:00pm	2:00-3:00pm	3:00-4:00pm	4:00-5:00pm
Monday	B2	POC-I (SH)	PATHO. (AM)	HAP-II(GS)		HAP-II(GS)/AM (Practical batch A & POC-I (SH) / Practical batch B			
	B4	P'COG.&PHYTO (SK)	MED CHEM-I (MB)	PP-II (KV)		MED CHEM-I (MB/PS) Practical batch A & PP-II (KV) Practical batch B			
Tuesday	B2	POC-I (SH)	PATHO. (AM)	HAP-II(GS)		HAP-II(GS)/AM (Practical batch B & POC-I (SH) / Practical batch A			
	B4	P'COG.&PHYTO (SK)	MED CHEM-I (MB)	PP-II (KV)		MED CHEM-I (MB/PS) Practical batch B & PP-II (KV) Practical batch A			
Wednesday	B2	POC-I (SH)	PATHO. (AM)	HAP-II(GS)		BIOCHEM (PD) / (KV) Practical batch A	CAP (PS) Practical batch B		
	B4	P'COG.&PHYTO (SK)	MED CHEM-I (MB)	PP-II (KV)		P'COLOGY (AM/MS) Practical batch A & P'COG.&PHYTO (SK) Practical batch B			
Thursday	B2	BIOCHEM (PD)	CAP (PS)	EVS (KV)		BIOCHEM (PD) / (KV) Practical batch A	CAP (PS) Practical batch B		
	B4	POC-III (MB)	P'COLOGY (AM)	MED CHEM-I (MB)		P'COLOGY (AM/MS) Practical batch A & P'COG.&PHYTO (SK) Practical batch B			
Friday	B2	BIOCHEM (PD)	CAP (PS)	EVS (KV)		PATHO. (AM)	HAP-II(GS)	SCA	SCA
	B4	POC-III (MB)	P'COLOGY (AM)	P'COG.&PHYTO (SK)		POC-III (MB)		SCA	
Saturday	B2	BIOCHEM (PD)	CAP (PS)	EVS (KV)	BIOCHEM (PD)	POC-I (SH)	PATHO. (AM)	SCA	
	B4	POC-III (MB)	PP-II (KV)	P'COLOGY (AM)	P'COLOGY (AM)			SCA	

B.Pharmacy 2nd sem (B2): LH-3

B.Pharmacy 4th sem (B4): LH-5

B. Pharmacy IV <sup>th</sup> Sem		B. Pharmacy II <sup>nd</sup> Sem	
Abbreviation	Name	Abbreviation	Abbreviation
POC-III (MB)	Pharmaceutical organic chemistry-III	HAP-I (GS)	Human Anatomy & Physiology-II
Med. Chem.-I (MB)	Medicinal Chemistry-I	POC-I (SH)	Pharmaceutical organic chemistry-I
PP-II (KV)	Physical Pharmaceutics-II	BIOCHEM. (PD)	Biochemistry
P'COlogy (AM)	Pharmacology-I	PATHO. (AM)	Pathophysiology
P'Cog. & phyto (SK)	Pharmacognosy and phytochemistry-I	CAP (PS)	Computer applications in pharmacy
		EVS (KV)	Environmental sciences

Subject Teacher					
Dr. JS	Dr. Jagdish Baidya	KV	Kumari Vashi	MB	Matha Bala
SK	Sunjay Kumar	PN	Priyanka Devi	GS	Gaurav Sharma
AM	Ashu Mishra	SH	Sonal		Nisha

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Signature

Signature

Director

Date: 12/11/2021

Gautam College of Pharmacy, Hamirpur

B.Pharmacy Time Table for the academic Session Sep.2021 to Jan,2022

w.e.f

DAY	SEM/ YEAR	9:30-10:30 am	10:30-11:30am	11:30-12:30pm	12:30-1:00pm	1:00-2:00pm	2:00-3:00pm	3:00-4:00pm	4:00-5:00pm
Monday	B1	P'ANALYSIS (MB)	HAP (BK)	P'Centics-I (LC)					
	B3	P. ENGG.(SS)	PP-II (PS)	P'Micro (SD)					
	B5	Ind. Pharmacy (KV)	P'COLOGY (AM)	Med. Chem.-II (JT)					
Tuesday	B1	P'Centics-I (LC)	PIC-I . (SK)	P'ANALYSIS (MB)					
	B3	PP-I Tut.(PS)	POC II (STK)	P'Micro (SD)					
	B5	Med. Chemistry-II (JT)	P.Cognosy (P)	P'COLOGY Tut.(AM)					
Wednesday	B1	HAP (BK)	P'ANALYSIS Tut.(MB)	COMM. SKILL(MP)					
	B3	P'Micro (SD)	Library	P. ENGG.Tut. (SS)					
	B5	P.Juris(GS)	Ind. Pharmacy (KV)	Library					
Thursday	B1	PIC-I . (SK)	P'Centics-I (LC)	HAP (BK)					
	B3	POC II (STK)	Library	P'Micro Tut. (SD)					
	B5	P.Juris(GS)	Med. Chem.-II (JT)	P.Cognosy Tut.(P)					
Friday	B1	PIC-I Tut. (SK)	REM. BIOLOGY (VK)/ REM. MATHS (R)	COMM.SKILL(MP)					
	B3	POC II (STK)	PP-I (PS)	P. ENGG.(SS)					
	B5	P'COLOGY (AM)	Library	Ind. Pharmacy Tut.(KV)					
Saturday	B1	PIC-I . (SK)	P'Centics-I Tut.(LC)	P'ANALYSIS (MB)					
	B3	PP-I (PS)	POC II Tut. (STK)	P. ENGG.(SS)					
	B5	P.Cognosy (P)	P'COLOGY (AM)	Med. Chem.-II Tut.(JT)					

B.Pharmacy 1st sem Sec-A (B1): LH-1

B.Pharmacy 3<sup>rd</sup> sem (B3): LH-3,

B.Pharmacy 5<sup>th</sup> sem (B-5): LH-5

B. Pharmacy Vth Sem.		B. Pharmacy IIIrd Sem.		B. Pharmacy Ist Sem	
Abbreviation	Name	Abbreviation	Name	Abbreviation	Abbreviation
Med. Chem.-II	Medicinal Chemistry-II	F.ENGG.	Pharmaceutical Engineering	HAF-I	Human Anatomy & Physiology-I
Ind. Pharmacy	Industrial Pharmacy	POC-II	Pharmaceutical organic chemistry-II	P'Analysis	Pharmaceutical analysis
P.Cognosy	Pharmacognosy & Phytochemistry-II	PP-I	Physical Pharmaceutics-I	PIC-I	Pharmaceutical Inorganic chemistry
P'Cology	Pharmacology	P'Micro	Pharmaceutical Microbiology	Comm. skills	Communication skills
P.Juris	Pharmaceutical Jurisprudence			Ranbio/Maths	Essential biology/Remedial mathematics
				P'centics-I	Pharmaceutics-I

		Subject Teacher						R	Faculty
Dr. JS	Dr. Jandish Badhan	KV	Kumari Vantha	GS	Garima Sharma	MP	Manoj Palanis		
RK	Ravinder Khosla	AM	Ashil Moudgil	PS	Priyanka Sharma	SS	Shivaji Sagaris		
SK	Soweta Kumeri	VK	Dr. Vinay Kumar	LC	Lalit Chandel	MB	Madhu Bala		
JT	Jyoti Thakur	STK	Sunita Kumar	SD	Sumita Dhanan	P	Pooja		

Prepared & Checked by

Incharge Academic

Gautam College of Pharmacy, Hamirpur

B.Pharmacy Time Table for the Academic Session April, 2022 to August 2022

w.e.f

DAY	SEM/ YEAR	9:30-10:30 am	10:30-11:30am	11:30-12:30	12:30- 1:00pm	1:00-2:00pm	2:00-3:00pm	3:00-4:00pm	4:00-5:00pm
Monday	B2	CAP (PK)	HAP-III(SD)	POC-I (JT)		BIOCHEM (VKD) / VD Practical batch A & HAP-III(SD) / AM Practical batch B			
	B4	POC-II (JT)	PP-II (VD)	SCA		MED CHEM I (STK) Practical batch A & PP-II (KV) Practical batch B			
	B6	HDT(RUK)	P'COLOGY-III (AM)	MED CHEM-III (STK/MB)		MED CHEM-III (JT) Practical batch A & HDT(RUK) Practical batch B			
Tuesday	B2	PATHO. (SK)	HAP-III(SD)	BIOCHEM (VKD)		HAP-III(SD) / Practical batch A & BIOCHEM (VKD) Practical batch B			
	B4	PP-II (VD)	POC-II (JT)	MED CHEM-I (STK)		PP-II (VD) Practical batch A & MED CHEM I (STK) Practical batch B			
	B6	MED CHEM-III (STK)	P'COLOGY-III (AM)	HDT(RUK)		HDT(RUK) Practical batch A & MED CHEM-III (STK/MB) Practical batch B			
Wednesday	B2	POC-I (JT)	CAP (PK)	POC-I (JT)		POC-I (JT) / Practical batch A & Library batch B			
	B4	PP-II (VD)	SCA	P'COG.&PHYTO (MK)		P'COLOGY (RK) Practical batch A & P'COG.&PHYTO (MK) (KV) Practical batch B			
	B6	MED CHEM-III (STK)	P'COLOGY-III (AM)	HDT(RUK)		P'COLOGY-III(AM) / VD Practical batch A & batch B Library			
Thursday	B2	PATHO. (SK)	BIOCHEM (VKD)	EVS (SS)		Library batch A & POC-I (JT) Practical batch B			
	B4	P'COLOGY (RK)	P'COG.&PHYTO (MK)	MED CHEM-III (STK)		P'COG.&PHYTO (MK) (KV) Practical batch A & P'COLOGY (RK) Practical batch B			
	B6	BIOPHARM (SS)	QA(KV)	MED CHEM-III (STK/MB)		P'COLOGY-III(AM) / (VD) Practical batch B & Batch A Library			
Friday	B2	HAP-III(SD)	CAP (PK) / N PRACTICAL Batch A & Library Batch B			PATHO. (SK)	BIOCHEM (VKD)	EVS (SS)	HAP-III(SD)
	B4	POC-II (JT)	P'COG.&PHYTO (MK)	MED CHEM-III (STK)		P'COLOGY (RK)	SCA	P'COG.&PHYTO (MK)	MED CHEM-III (STK)
	B6	BIOPHARM (SS)	QA(KV)	P' BIOTECH (PS)		HDT(RUK)	QA(KV)	SCA	BIOTECH (PS)
Saturday	B2	PATHO. (SK)	CAP (PK) PRACTICAL Batch B & Library Batch A			POC-I (JT)	BIOCHEM (VKD)	PATHO. (SK)	EVS (SS)
	B4	P'COLOGY (RK)	POC-II (JT)	PP-II (VD)		P'COLOGY (RK)	SCA	Library	SCA
	B6	BIOPHARM (SS)	P' BIOTECH (PS)	QA(KV)		P'COLOGY-III (AM)	BIOPHARM (SS)	SCA	P' BIOTECH (PS)

B. pharmacy 2nd sem Sec-A (B2): L11-1

B. pharmacy 4th sem (B4): L11-3

B. pharmacy 6th sem (B-6): L11-5

B. Pharmacy VI <sup>th</sup> Sem.		B. Pharmacy IV <sup>th</sup> Sem.		B. Pharmacy II <sup>nd</sup> Sem.	
Abbreviation	Name	Abbreviation	Name	Abbreviation	Abbreviation
Med. Chem.-II (STK/MB)	Medicinal Chemistry-II	POC-III (JT)	Pharmaceutical organic chemistry-III	HAP-I (SD)	Human Anatomy & Physiology-II
P'Cology (AM)	Pharmacology-II	Med. Chem.-I (STK)	Medicinal Chemistry-I	POC-I (JT)	Pharmaceutical organic chemistry-I
HDT (RUK)	Herbal Drug Technology	PP-II (VD)	Physical Pharmaceutics-II	BIOCHEM (VKD)	Biochemistry
BIO Pharm. (SS)	Biopharmaceutics & pharmacokinetic	P'Cology (RK)	Pharmacology-I	PATHO. (SK)	Pathophysiology
P. Bio tech (PS)	Pharmaceutical Biotechnology	P'Cog. & phyto (MK)	Pharmacognosy and phytochemistry-I	CAP (PK)	Computer applications in pharmacy
QA (KV)	Quality Assurance			EVS (SS)	Environmental sciences

Subject Teacher									
Dr. ZS	Dr. Jagdish Nath	KV	Kamini Varsha	VKD	Vijay Datta	SK	Suresh Kumar	RJK	Rajesh Kumar
AM	Ravinder Khatri	PS	Divyanshu Sharma	JT	Jyoti Thakur	MS	Mammet Kaur	VD	Varsha Devi
	Akhil Anand	SS	Shivaji Salawia	ETK	Sanku Kumar	PK	Pavita Kumar	SD	Sanjay Dhillon

Prepared by  
*(Signature)*

Director  
*(Signature)*

Academic Incharge  
*(Signature)*

Director  
*(Signature)*

Western College of Pharmacy, Ramnagar  
B.Pharmacy Time Table for the Academic Session Sep. 2022 to 2023

DAY	Sem/Year	9:30-10:30 am	10:30-11:30am	11:30-12:30	12:30-1:00pm	1:00-2:00pm	2:00-3:00pm	3:00-4:00pm	4:00-5:00pm
Monday	B1-A	HAP-I (SK)	PIC (SLK)	Pharmaceutics-I (KV)	LUNCH	PIC (SLK) / Practical batch A	HAP-I (AM)	HAP-I (SK) / Practical batch B	
	B1-B	F'Analysis (NR)	Library	Pharmaceutics-I (KV)		F'Analysis (NR)	Pharmaceutics-I (SS)		
	B3	P' Microbiology (SD)	Ind. Pharmacy (PS)	P. Cognony (Dr. J.S. Badhan)		F' Microbiology (SD) Practical batch A	POC (VD) Practical batch B		
	B5	P'Colony (RK)	Practice School	P'Enge. (SS)		Inf. Pharmacy (PS) Practical batch A	P. Cognony (Dr. J.S. Badhan) Practical batch B		
Tuesday	B1-A	HAP-I (SK)	F'Analysis (NR)	Pharmaceutics-I (KV)	LUNCH	HAP-I (SK) / Practical batch A	PIC (SLK) / Practical batch B	Pharmaceutics-I (SS)	
	B1-B	F'Analysis (NR)	Practice School	Pharmaceutics-I (KV)		F'Analysis (NR) Practical batch A	Pharmaceutics-I (KV) Practical batch B		
	B3	POC-II (VD)	SCA	F' Microbiology (SD)		Inf. Pharmacy (PS) Practical batch B	POC (VD) Practical batch A		
	B5	P'Colony (RK)	Ind. Pharmacy (PS)	P. Cognony (Dr. J.S. Badhan)		HAP-I (SK) / Practical batch A	PIC (SLK) / Practical batch B		
Wednesday	B1-A	Pharmaceutics-I (KV)	HAP-I (SK)	F'Analysis (NR)	LUNCH	F' Microbiology (SD) Practical batch B	POC (VD) Practical batch A	Pharmaceutics-I (SS)	
	B1-B	HAP-I (AM) / Practical batch A	PIC (VD) / Practical batch B	F'Enge. (SS)		Inf. Pharmacy (PS) Practical batch B	P. Cognony (Dr. J.S. Badhan) Practical batch A		
	B3	P'Enge. (SS)	Library	F' Microbiology (SD)		BMA (Dx.K)	NDDS (KV)	SCA	P-II (SS)
	B5	Med Chem-II (STK)	P'Colony (RK)	Inf. Pharmacy (PS)		F'Analysis (NR) / Practical batch A	Pharmaceutics-I (KV) Practical batch B		
Thursday	B1-A	Comm. Skills (RK)	Rem Bio (SD) / Rem. Maths (R)	F'Analysis (NR)	LUNCH	PP-II (PS) Practical batch A	F'Enge. (SS) Practical batch B	Pharmaceutics-I (SS)	
	B1-B	HAP-I (AM) Practical batch B	PIC (VD) / Practical batch A	F'Enge. (SS)		Pharmaceutics-I (KV) Practical batch A	P'Analysis (SK) / Practical batch B		
	B3	PP-I (PS)	Library	F'Enge. (SS)		LUNCH	PIC (VD)	Library	Comm. Skills (AM)
	B5	Med Chem-II (STK)	P'Jurisprudence (SK)	P'Colony (RK)		PP-II (PS) Practical batch A	F'Enge. (SS) Practical batch B		
Friday	B1-A	PIC (SLK)	Library	Rem Bio (SD) / Rem. Maths (R)	LUNCH	F'Colony (RK) Practical batch B	Library Batch A	Pharmacy Practice (AM)	
	B1-B	Pharmaceutics-I (SS)	Rem Bio Practical (RK) (Batch A)	Comm. Skills Practical (AM) (Batch B)		Pharmaceutics-I (KV) Practical batch A	P'Analysis (SK) / Practical batch B		
	B3	POC-II (VD)	F' Microbiology (SD)	PP-I (PS)		LUNCH	PIC (VD)	Library	Comm. Skills (AM)
	B5	F'Jurisprudence (SK)	P. Cognony (Dr. J.S. Badhan)	Med Chem-II (STK)		PP-II (PS) Practical batch A	F'Enge. (SS) Practical batch B		
Saturday	B1-A	PIC (SLK)	Pharmaceutics-I (KV)	F'Analysis (NR)	LUNCH	Pharmacy Practice (AM)	SCA	BMA (Dx.K)	
	B1-B	PIC (VD)	Rem Bio Practical (RK) (Batch B)	Comm. Skills Practical (AM) (Batch A)		PIC (VD)	Library	Rem Bio (KV) / Rem. Maths (R)	Comm. Skills (AM)
	B3	PP-I (PS)	P'Enge. (SS)	POC-II (VD)		POC-II (VD)	Library	SCA	
	B5	Med Chem-II (STK)	F'Jurisprudence (SK)	P. Cognony (Dr. J.S. Badhan)		Inf. Pharmacy (PS)	SCA	P'Pharmacokinetics (SK)	Library

B. Pharmacy VII <sup>th</sup> Sem.		B. Pharmacy V <sup>th</sup> Sem.		B. Pharmacy III <sup>rd</sup> Sem.		B. Pharmacy I <sup>st</sup> Sem.		B. Pharmacy I <sup>st</sup> Sem.	
Abbreviation	Name	Abbreviation	Name	Abbreviation	Name	Abbreviation	Name	Abbreviation	Name
BMA (Dx.K)	Instrumental Methods Of Analysis	Med. Chem-II (STK)	Medical Chemistry-II	F'ENGG. (SS/AD)	Pharmaceutical Engineering-I	HAP-I (SK)	Home Anatomy & Physiology-I	HAP-I (AM)	Home Anatomy & Physiology-I
IP-IBSS	Industrial Pharmacy-II	Inf. Pharmacy (PS)	Industrial Pharmacy-I	POC-II (VD)	Physical Chemistry-II	F'Analysis (NR)	Pharmaceutical analysis	F'Analysis (NR)	Pharmaceutical analysis
Pharmacy Practice (AM)	Pharmacy Practice	P. Cognony (Dr. J.S. Badhan)	Pharmacology & Pharmacokinetics-I	PP-I (PS)	Physical Pharmaceutics-I	PIC-I (RK)	Pharmaceutical Inorganic Chemistry	PIC-I (VD)	Pharmaceutical Inorganic Chemistry
NDDS (KV)	Novel Drug Delivery System	F'Colony (RK)	Pharmaceutics-I	PP/Gen (SD)	Pharmaceutical Microbiology	Comm. Skills (SK)	Communicative skills	Comm. Skills (AM)	Communicative skills
		P. Jais (SK)	Pharmaceutics-I			Kantha (SD) / Kantha (R)	Essential Inorganic Chemistry	Kantha (SK) / Kantha (R)	Essential Inorganic Chemistry
						F'Colony-I (KV)	Pharmaceutics-I	Pharmaceutics-I (SS)	Pharmaceutics-I
Subject Teacher									
Dr. JS	De. Jandish Badhan	SK	Sweta Kumari	PS	Priyanka Sharma	NR	Neha Rani	De.K	Dinesh Kumar
RK	Ravinder Khatri	R	Radhika	SS	Sarvati Saloonia	VD	Vandana Devi	AD	Abhishek Shrivastava
								KV	Kamini Varsh
								ND	Nandini Choudhary

**Gautam College of Pharmacy, Humber**  
**B. Pharmacy Time Table for the Academic Session Feb. 2023 - June 2023**

DAY	Sem/Year	9:30-10:30 am	10:30-11:30 am	11:30-12:30	12:30-1:00pm	1:00-2:00pm	2:00-3:00pm	3:00-4:00pm	4:00-5:00pm
Monday	B2(S-A)	Biochem. (SH)	POC-IV(VD)	Patho (AM)		HAF-II (SKY) Practical batch A (L-II) (LT-SP)	Biochem. (SH) Practical batch B (L-5) (LT-A)		
	B2(S-B)	HAF-II (SD) / Prac. B-A (L-II) (LT-A), POC-II (PS) / Prac. B-B (L-2) (LT-K)							
	B4	P'Colony (RK)	PP-II (SS)	P'Cog. & Photo. (KV)	LUNCH				
	B6	Med. Chem.-III (STK) Prac. B-A (L-1) (LT-SKS), HDT (NR) Prac. B-B (L-10) (LT-VK)							
Tuesday	B2(S-A)	Biostatistics & RM (R)	PROJECT	Making (SLK)		Med. Chem.-I (VD) Prac. B-A (L-10) (LT-SP), P'Cog. & P'Chem. (KV) Prac. B-B (L-10) (LT-VK)			
	B2(S-B)	Biochem. (SH)	Patho (AM)	HAF-II (SK)	LUNCH	P'Co Vigilance (SD)	CCA	Biopharm. (SS)	P'Colony (AM)
	B4	HAF-II (SD) / Prac. B-B (L-11) (LT-SP), POC-II (PS) / Prac. B-A (L-2) (LT-R)							
	B6	PP-II (SS)	P'Colony (RK)	P'Cog. & Photo. (KV)	LUNCH				
Wednesday	B2(S-A)	Med. Chem.-III (STK) Practical B-B (L-1) (LT-K), HDT (NR) Practical B-A (L-10) (LT-VK)				Med. Chem.-I (VD) Prac. batch B (L-1) (LT-SP), P'Cog. & P'Chem. (KV) Prac. B-A (L-10) (LT-VK)			
	B2(S-B)	Biostatistics & RM (R)	PROJECT						
	B4	Biochem. (SH)	POC-IV(VD)	HAF-II (SK)	LUNCH	Marketing (SLK)	PROJECT		
	B6	Pharmacology (AM) Practical B-B (L-11) (LT-SP), CCA (SD) (B-A)							
Thursday	B2(S-A)	HAF-II (SK)	EVS (PS)	POC-IV(VD)		POC-II (VD) Practical batch B (L-2) (LT-VK), CAP Practical (AMCTR) Batch A			
	B2(S-B)	Biochem. (SH) Practical batch B (L-5) (LT-SKS), CCA (NR) Batch A							
	B4	Med. Chem.-I (VD)	P'Cog. & Photo. (KV)	POC-III (STK)	LUNCH	PP-II (SS) Prac. B-A (L-1) (LT-A), P'COL (RK) Practical batch B (L-10) (LT-VK)			
	B6	Pharmacology (AM) Practical B-A (L-11) (LT-SP), CCA (SS) (B-A)							
Friday	B2(S-A)	Patho (AM)	CCA (SK)	Biopharm. (SS)		Soc. Pharmacy (PS)	PROJECT		
	B2(S-B)	Biochem. (SH)	EVS (SK)	Patho (SK)					
	B4	P'Colony (RK)	Med. Chem.-I (VD)	POC-III (STK)	LUNCH	PP-II (SS)	LIBRARY	P'Colony (RR)	P'Colony (CCA)
	B6	Med. Chem. (STK)	QA (KV)	P'Critical Biotech (PS)					
Saturday	B2(S-A)	Soc. Pharmacy (PS)	PROJECT	P'Co Vigilance (SD)		PROJECT			
	B2(S-B)	Patho (AM)	HAF-II (SK)	Biopharm. (SS)					
	B4	Biochem. (SH)	Patho (SK)	POC-III (STK)					
	B6	Med. Chem.-I (VD)	Library	P'Colony (AM)					

B. Pharmacy VIII <sup>th</sup> Sem.		B. Pharmacy VI <sup>th</sup> Sem.		B. Pharmacy IV <sup>th</sup> Sem.		B. Pharmacy I <sup>st</sup> Sem (Sec-A)		B. Pharmacy I <sup>st</sup> Sem (Sec-B)	
Abbreviation	Name	Abbreviation	Name	Abbreviation	Name	Abbreviation	Name	Abbreviation	Name
Biostatistics & RM (R)	Biostatistics & Research Methodology	Med. Chem.-II (STK)	Medicinal Chemistry-II	POC-III (STK)	Pharmaceutical organic chemistry-III	HAF-I (SD)	Human Anatomy & Physiology-I	HAF-I (SD)	Human Anatomy & Physiology-II
Soc. Pharmacy (PS)	Social and Preventive Pharmacy	P'Colony (AM)	Pharmacology-III	Med. Chem.-I (VD)	Medicinal Chemistry-I	POC-I (VD)	Pharmaceutical organic chemistry-I	POC-I (STK/PS)	Pharmaceutical organic chemistry-II
P'Co Vigilance (SD)	Pharmaco Vigilance	HDT (SK/NR)	Herbal Drug Technology	PP-II (SS)	Physical Pharmaceutics-II	Biopharm. (SS)	Biopharmaceutics	Biopharm. (SK)	Biopharmaceutics
Marketing (SLK)	Pharma Marketing Management	Biopharm. (SS)	BioPharmaceutical/pharmacokinetics	P'Colony (RK)	Pharmacology-I	Patho (AM)	Pathophysiology	Patho (AM)	Pathophysiology
		P.BioTech (PS)	Pharmaceutical Biotechnology	P'Cog & Photo (KV)	Pharmacology and phytochemistry-I	CAP (RD)	Computer applications in pharmacy	CAP (RD)	Computer applications in pharmacy
		QA (KV)	Quality Assurance			EVS (PS)	Environmental sciences	EVS (SK)	Environmental sciences

Subject Teacher		B.K.	Smit Kumar	SK	Smit Kumar	KV	Kamini Verma
Dr. JS	Dr. Jagdish Bhatnagar	NK	Neha Rani	AS	Ashwarya Soni	SK	Sweeta Kumari
RK	Ravinder Khatri	SK	Sweeta Kumari				

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NO:-  
Pharmacy 1<sup>st</sup> Sem.(B1,S-A): LH-1  
Pharmacy 7<sup>th</sup> Sem(B7): LH-6

Gautam College of Pharmacy, Hamirpur

Time Table Academic Session August 2022 to Dec 2022 (B.Pharmacy)

Date:-  
B.Pharmacy 1<sup>st</sup> Sem.(B1,S-B): LH-4

DAY	Sem.	9:30-10:30 am	10:30-11:30am	11:30-12:30pm	12:30-1pm	1:00-2:00pm	2:00-3:00pm	3:00-4:00pm	4:00-5:00pm
Monday	B1-A	Comm. Skills (R)	P'Analysis (VD)	HAP (SK)					
	B1-B	Comm. Skills (R)	Pharmaceutics-I (PS)	PIC (SR)					
	B3-A	P' Microbiology (SD)	LIBRARY	POC-II (STK)					
	B3-B	PP-II (AT) LA-(YL)-4 batch A	P' Engg (SS) batch B LA-(YL)-4 Practical						
Tuesday	B5	P. Cognosy (AM)	Library	Ind. Pharmacy (KV)					
	B7	Comm. Skills (R) Lnt. entry	Library	IMA (SLK)					
	B1-A	Comm. Skills (R)	P'Analysis (VD)	PIC (SR)					
	B1-B	Comm. Skills (R)	HAP (SK)	Pharmaceutics-I (PS)					
Wednesday	B3-A	POC-II (STK)	Library	P' Microbiology (SD)					
	B3-B	PP-II (AT) LA-(SKS)-6 batch B	P' Engg (SS) batch A LA-(YL)-4 Practical						
	B5	Ind. Pharmacy (KV)	Library	P. Cognosy (AM)					
	B7	Comm. Skills (R) Lnt. entry	Practice School	IMA (SLK)					
Thursday	B1-A	Pharmaceutics-I (PS)	PIC (SR)	HAP-I (SK)					
	B1-B	HAP-I (SK)	P'Analysis (VD)	Pharmaceutics-I (PS)					
	B3-A	P' Engg. (SS)	Library	PP-I (AT)					
	B3-B	P' Microbiology (SD) Batch A LA-(YL)-8	POC (STK) L-1 Batch B LA-(SKS)-2 Practical						
Friday	B5	Med Chem-II (R)	P' Cology (RK)	Ind. Pharmacy (KV)					
	B7	NDDS (KV)	Pharmacy Practice (AM)	IP-II (PI)					
	B1-A	P'Analysis (VD)	PIC (SR)	P'Analysis (VD)					
	B1-B	HAP-I (SK) LA-(SKS) Batch B L-11	Pharmaceutics-I (PS) Batch-A LA-(YL)-4 Practical						
Saturday	B3-A	P' Engg. (SS)	Library	PP-I (AT)					
	B3-B	P' Microbiology (SD) Batch B L-8	POC (STK) LA-(SP)-1 Batch A Practical						
	B5	Med Chem-II (R)	P' Cology (RK)	P' Jurisprudence (P)					
	B7	IMA (SLK)	Practice School	NDDS (KV)					

B. Pharmacy VI <sup>th</sup> Sem.		B. Pharmacy V <sup>th</sup> Sem.		B. Pharmacy III <sup>rd</sup> Sem		B. Pharmacy I <sup>st</sup> Sem	
Abbreviation	Name	Abbreviation	Name	Abbreviation	Name	Abbreviation	Name
A (SLK)	Instrumental Methods Of Analy	Med.Chem.-II(R)	Medicinal Chemistry-II	P'ENGG(SS)	Pharmaceutical Engineering	HAP-I (SK)	Human Anatomy&Physiology-I
-II(P)	Industrial Pharmacy-II	Ind.Pharmacy-I(K)	Industrial Pharmacy-I	POC-II (STK)	Pharmaceutical organic chemistry-II	P'Analysis (VD)	Pharmaceutical analysis
Pharmacy Practice (AM)	Pharmacy Practice	P.Cognosy (AM)	Pharmacognosy &Phytochemistry-II	PP-I (AT)	Physical Pharmaceutics-I	PIC-I (SR)	Pharmaceutical inorganic chemistry
DDS (KV)	Novel Drug Delivery System	P'Cology (RK)	Pharmacology	P.Micro (SD)	Pharmaceutical Microbiology	Comm skills,R,RK)	Communication skills
		P.Juris (P)	Pharmaceutical Jurisprudence			R.Bio(SY Maths)PR)	Remedial biology/ Remedial mathematics
						P'cutics-I (PS)	Pharmaceutics-I

Subject Teacher							
Dr. JSB	Dr. Jagdish Badhan	KV	Kumari Varsha	SD	Sunaina Dhiman	SR	Sunaina Rana
RK	Ravinder khatri	PS	Priyanka Sharma	NR	Neha Rani	SK	Sumit Kumar
AK	Akhil Moudgil	SS	Shivali Salooria	SLK	Sunil Kumar	SK	Sweta Kumari
						Pr	Praveen
						R	Rakesh
						VD	Varsha Devi
							S
							P
							Shubham
							Paik
							Director

Academic Incharge



Gautam College Of Pharmacy, Hamirpur  
 B.Pharmacy 2<sup>nd</sup> Sem.(B2,S-A): LH-1  
 B.Pharmacy 8<sup>th</sup> Sem.(B8): LH-6

B. Pharmacy Time Table Academic Sess. an. 2024-May 2024  
 B.Pharmacy 4<sup>th</sup> Sem.(B4,S-A): LH-2 LH-2  
 B.Pharmacy 6<sup>th</sup> Sem: LH-7 (B6)

B.Pharmacy 4<sup>th</sup> Sem.(B4,S-B): LH-2  
 L-LAB, B-Batch, S-Section

B.Pharmacy 7<sup>th</sup> Sem.(B7,S-B): LH-4

DAY	Sem/Year	9:30-10:30 am	10:30-11:30am	11:30-12:30noon	12:30-1pm	1:00-2:00pm	2:00-3:00pm	3:00-4:00pm	4:00-5:00pm
Monday	B2(S-A)	Biochem. (VK)	POC-3(STK)	HAP-II (SD)	LUNCH	HAP-II (SD)/ Practical batch A (L-1), Biochem. (VK) Practical batch B (L-5) (LT-SP)			
	B2(S-B)	HAP-II (SD)	EVS(Sv.)	Biochem. (VK)		CAP (DP)	Patho (SK)	Library	POC-3(STK)
	B4(S-A)	Med.Chem-(SH) Prac. B-A (L-1) P'Cog. & P'Chem. (PS) Prac. B-B (L-8)			LUNCH	P'Cog. & P'Chem. (KV) Prac. B-B (L-10) (LT-SKS) PP-II (AT) Practical B-A (L-4)			
	B4(S-B)	P'Colony (AM)	PP-II (AT)	P'Cog. & Physio (KV)		LUNCH	QA (P)	Med. Chem. (VD)	P'Colony (SK)
	B6	Med. Chem.-III (VD) Prac. B-A (L-1) (LT-SKS), HDT (SK) Prac. B-B (L-10)			LUNCH	Project Work			
B8	Biostatistics & RM (PR.)	Soc. Pharmacy (RK)	Marketing (SLK)	GPAT (Dr.S.S)		Project Work			
Tuesday	B2(S-A)	Biochem. (VK)	POC-3(STK)	HAP-II (SD)	LUNCH	HAP-II (SD)/ Practical batch B (L-1) (LT-SP), Biochem. (VK) Prac. batch A (L-5)			
	B2(S-B)	HAP-II (SD)	EVS(Sv.)	Biochem. (VK)		CAP (DP)	Library	Patho (SK)	POC-3(STK)
	B4(S-A)	Med.Chem.-I (SH) Prac. B-B (L-1) (SKS), P'Cog. & P'Chem. (PS) Prac. B-A (L-10) (LT-SP)			LUNCH	P'Cog. & P'Chem. (KV) Prac. B-A (L-10) (LT-SKS) PP-II (AT) Practical B-B (L-6) (LT-SP)			
	B4(S-B)	P'Colony (AM)	PP-II (AT)	P'Cog. & Physio (KV)		LUNCH	P'Central Biotech (PS)	P'Colony (SK)	Med. Chem. (VD)
	B6	Pharmacology (RK) Practical B-B (L-1) (HDT) (SK) Prac. B-A (L-10) (LT-SP)			LUNCH	Project Work			
B8	Biostatistics & RM (PR.)	GPAT (VD)	GPAT (AM)	Marketing (SLK)		Project Work			
Wednesday	B2(S-A)	HAP-II (SD)	POC-3(STK)	Patho (SK)	LUNCH	POC-3(STK) Prac. B-B (L-6) (LT-SKS), CAP Practical (DP) Batch-A			
	B2(S-B)	Biochem. (VK) Practical batch A (L-5) (LT-A)	CAP Practical (DP) Batch-B	LUNCH		Patho (SK)	Biochem. (VK)	HAP-II (SD)	HAP-II (SD)
	B4(S-A)	P'Colony (AM)	Med.Chem-I (SH)	POC-III (VD)	LUNCH	PP-II (AT) P'Cog. & Physio (PS) P'Colony (AM) Practical batch B (L-1) (LT-SP)			
	B4(S-B)	P'Cog. Physio (KV)	PP-II (AT)	P'Colony (AM)		LUNCH	Med.Chem-I (SH) Prac. B-A (L-1) (LT-SKS) P'COL (AM) Practical batch B (L-1) (LT-SP)	Library	P'Cog. & Physio (PS)
	B6	HDT (SK)	P'Central Biotech (PS)	Biopharm. (KV)	LUNCH	Pharmacology (RK) Practical B-A (L-1) (HDT) (SK) Prac. B-B (L-1) (LT-SP)			
B8	Biostatistics & RM (PR.)	Soc. Pharmacy (RK)	P'Cog. & Physio (KV)	CAP (DP) (Lat. Entry) Practical/Project Work		Project Work			
Thursday	B2(S-A)	Patho (SK)	HAP-II (SD)	POC-3(STK)	LUNCH	POC-3(STK) Prac. B-A (L-2) (LT-SKS), CAP Practical (DP) Batch-B			
	B2(S-B)	Biochem. (VK)	Practical batch B (L-5) (LT-SKS), CAP Practical (DP) Batch-A	LUNCH		Biochem. (VK)	HAP-II (SD)	EVS(Sv.)	HAP-II (SD)
	B4(S-A)	P'Colony (AM)	P'Cog. & P'chem (PS)	POC-III (VD)	LUNCH	PP-II (AT) P'Cog. & Physio (PS) P'Colony (AM) Practical batch B (L-1) (LT-SP)			
	B4(S-B)	POC-III (VD)	Med.Chem-I (SH)	PP-II (AT)		LUNCH	Med.Chem-I (SH) Prac. batch B (L-1) (LT-SP), P'Colony (AM) Practical batch B (L-1) (LT-SP)	Library	P'Cog. & Physio (PS)
	B6	QA (P)	Biopharm. (KV)	HDT (SK)	LUNCH	CCA			
B8	Biostatistics & RM (PR.)	GPAT (RK)	Marketing (SLK)	EVS(Sv.)		Library	P'Cog. & Physio (PS)	CCA	
Friday	B2(S-A)	Patho (SK)	HAP-II (SD) Prac. B-A (L-1) (LT-SKS), CAP Practical (DP) Batch-A	POC-III (VD)	LUNCH	P'Cog. & Physio (KV) Prac. B-B (L-1) (LT-SKS)			
	B2(S-B)	Biochem. (VK)	Practical batch B (L-5) (LT-SKS), CAP Practical (DP) Batch-A	LUNCH		POC-3(STK)	Library	Med.Chem-I (SH)	CCA
	B4(S-A)	PP-II (AT) Prac. B-A (L-6) (LT-A), P'COL (AM) Practical batch B (L-1)	P'Cog. & P'chem (PS)	POC-III (VD)	LUNCH	P'Colony (AM) Practical batch B (L-1) (LT-SP)			
	B4(S-B)	Med.Chem-I (SH)	P'Central Biotech (PS)	HDT (SK)		LUNCH	P'Colony (AM)	Library	Biopharm. (KV)
	B6	Med. Chem. (VD)	GPAT (Dr. S.K)	Soc. Pharmacy (RK)	LUNCH	Project Work			
B8	P'Cog. & Physio (KV)	GPAT (Dr. S.K)	Patho (SK)	LUNCH		CAP (DP) (Lat. Entry)	Library	HAP (HDT)	
Saturday	B2(S-A)	EVS(Sv.)	HAP-II (SD) Prac. B-B (L-1) (LT-SKS), POC-3(STK) Prac. B-A (L-1) (LT-SKS)	POC-III (VD)	LUNCH	P'Colony (AM) Practical batch B (L-1) (LT-SP)			
	B2(S-B)	HAP-II (SD) Prac. B-B (L-1) (LT-SKS), POC-3(STK) Prac. B-A (L-1) (LT-SKS)	P'Colony (AM) Practical B-A (L-1) (LT-SP)	LUNCH		P'Colony (AM)	Library	Med.Chem-I (SH)	CCA
	B4(S-A)	PP-II (AT) Practical B-B (L-6) (LT-SKS), P'Colony (AM) Practical B-A (L-1) (LT-SP)	P'Cog. & P'chem (PS)	HDT (SK)	LUNCH	P'Colony (AM) Practical batch B (L-1) (LT-SP)			
	B4(S-B)	Med.Chem-I (SH)	GPAT (Dr. S.K)	Soc. Pharmacy (RK)		LUNCH	CAP (DP) (Lat. Entry)	Library	HAP (HDT)
	B6	HDT (SK)	Biopharm. (KV)	QA (P)	LUNCH	CCA			
B8	Marketing (SLK)	Soc. Pharmacy (RK)	P'Cog. & Physio (KV)	LUNCH		CAP (DP) (Lat. Entry)	Library	GPAT (PS)	

B. Pharmacy VIII <sup>th</sup> Sem.		B. Pharmacy VI <sup>th</sup> Sem.		B. Pharmacy IV <sup>th</sup> Sem.		B. Pharmacy II <sup>nd</sup> Sem.	
Abbreviation	Name	Abbreviation	Name	Abbreviation	Name	Abbreviation	Name
Biostatistics & RM (PR.)	Biostatistics & Research Methodology	Med. Chem.-II (V)	Medicinal Chemistry-II	POC-III (VD)	Pharmaceutical organic chemistry-III	HAP-4 (SD)	Human Anatomy & Physiology-II
Soc. Pharmacy (RK)	Social and Preventive Pharmacy	P'Colony (RK)	Pharmacology-III	Med.Chem.-I (SH)	Medicinal Chemistry-I	POC-4 (STK)	Pharmaceutical organic chemistry-I
P'Cog. & Physio (KV)	Pharmacovigilance	HDT (SK)	Herbal Drug Technology	PP-II (AT)	Physical Pharmaceutics-II	Biochem (VK)	Biochemistry
Marketing (SLK)	Pharma Marketing Management	Biopharm. (KV)	Biopharmaceutics & Pharmacokinetics	P'Colony (RK)	Pharmacology-I	PATHO (SK)	Pathophysiology
		P. Bio tech (PS)	Pharmaceutical Biotechnology	P'Cog. & physio (PS) Sec-A	Pharmacognosy & phytochemistry-I	CAP (DP)	Computer applications in pharmacy
		QA (P)	Quality Assurance	P'Cog. & physio (KV) Sec-B	Pharmaceutics & physicochemistry-I	EVS (Sv)	Environmental sciences

Dr. S.K	Dr. Sanjay Kumar	SD	Sonaina Dhimas	AM	Akhil Moudgil	SLK	Spnil Kumar	PS	Priyanka Sharma	Sv.	Shivani	SH	Shivali Rana	AT	Amn Thakur
RK	Ravinder Khatri	DP	Deepika	KV	Kumar Varsha	VS	Vikram	PS	Saeta Kamari	VD	Vaisha Devi	STK	Smit Kumar	P	Patik

# Gautam College Of Pharmacy, Haripur

LH-1 - B.Pharmacy 2<sup>nd</sup> Sem.(Sec-A) LH-2 - B.Pharmacy 4<sup>th</sup> Sem.(Sec-B) LH-3 - B.Pharmacy 4<sup>th</sup> Sem.(Sec-B) LH-4 - B.Pharmacy 2<sup>nd</sup> Sem.(Sec-B) LH-5 - B.Pharmacy 2<sup>nd</sup> Sem.(Sec-B) LH-6 - B.Pharmacy 8<sup>th</sup> Sem. LH-7 - B.Pharmacy 7<sup>th</sup> Sem L-LAB, Time Table Academic Session Jan. 2024-May 2024

DAY	SEM/ YEAR	9:00-10:00 am	10:00-11:00am	11:00-12:00pm	12:00-1:50pm	1:00-2:00pm	2:00-3:00pm	3:00-4:00pm	4:00-5:00pm				
Monday	B2(S-A)	Biochem. (VK)	POC-I(STK)	HAP-II (SD)	LUNCH	LUNCH	HAP-II (SD)/ Practical batch A (L-II), Biochem. (VK) Practical batch B (L-5) (LT-SP)	CAP (DP)	Patho (SK)	Library	POC-3(STK)		
	B2(S-B)	HAP-II (SD)	EVS(Sv.)	Biochem. (VK)								F Cog & P Chem (KV) Prac. B-B (L-10)(LT-SP)	PP-II (AT) Practical B-B (L-4) (LT-SP)
	B4 (S-A)	Med.Chem-I(SH) Prac. B-A (L-1) P'Cog.&P'Chem (TS)Prac. B-B(L-8)			LUNCH	LUNCH	LUNCH	F Cog & P Chem (KV) Prac. B-B (L-10)(LT-SP)	PP-II (AT) Practical B-B (L-4) (LT-SP)	Library	Patho (SK)	POC-3(STK)	
	B4 (S-B)	F'Colgy (AM)	PP-II (AT)	P'Cog & Physo.(KV)									Med.Chem-I(SH) Prac. B-A (L-1)(LT-SKS)
	B6	Med. Chem-III (VD) Prac. B-A (L-1)(LT-SKS)			LUNCH	LUNCH	LUNCH	QA (P)	Med. Chem. (VD)	P'Colgy (SK)	Project Work	P'Colgy (SK)	
B8	Biostatistics & RM (PR.)	Soc. Pharmacy (RK)	Marketing (SLK)	GPAT (Dr. S.K)									Project Work
Tuesday	B2(S-A)	Biochem. (VK)	POC-I(STK)	HAP-II (SD)	LUNCH	LUNCH	HAP-II (SD)/ Practical batch B (L-11)(LT-SP), Biochem. (VK) Prac. batch A (L-5)	CAP (DP)	Library	Patho (SK)	POC-3(STK)		
	B2(S-B)	HAP-II (SD)	EVS(Sv.)	Biochem. (VK)								F Cog & P Chem (KV) Prac. B-B (L-10)(LT-SP)	PP-II (AT) Practical B-B (L-4) (LT-SP)
	B4 (S-A)	Med.Chem-I(SH)Prac. B-B(L-1)(SKS),P'Cog & P'Chem (PS)Pr. B-A(L-10)(LT-SP)			LUNCH	LUNCH	LUNCH	F Cog & P Chem (KV)Prac. B-A (L-10)(LT-SKS)	PP-II (AT) Practical B-B (L-4) (LT-SP)	Library	Patho (SK)	POC-3(STK)	
	B4 (S-B)	F'Colgy (AM)	PP-II (AT)	F'Cog & Physo (KV)									Pharmacology (RK)Practical B-B (L-11),HDT (SK) Prac. B-A (L-10)(LT-SP)
	B6	Pharmacology (RK)Practical B-B (L-11),HDT (SK) Prac. B-A (L-10)(LT-SP)			LUNCH	LUNCH	LUNCH	Marketing (SLK)	Project Work	P'Colgy (RK)	Med. Chem. (VD)	P'Colgy (SK)	
B8	Biostatistics & RM (PR.)	GPAT (VD)	GPAT (AM)	POC-3(STK) Pract. B-B (L-5)(LT-SKS), CAP Practical (DP) Batch-A									
Wednesday	B2(S-A)	HAP-II (SD)	POC-I(STK)	Patho (SK)	LUNCH	LUNCH	POC-3(STK) Pract. B-B (L-5)(LT-SKS), CAP Practical (DP) Batch-A	CAP (DP)	Library	Patho (SK)	Biochem. (VK)	HAP-II (SD)	
	B2(S-B)	Biochem. (VK)	Practical batch A (L-5) (LT-A)	CAP Practical (DP) Batch-B									POC-III (VD)
	B4 (S-A)	F'Colgy (AM)	Med.Chem-I (SH)	POC-III (VD)	LUNCH	LUNCH	LUNCH	Med.Chem-I (SH) Prac. B-A (L-1)(LT-SKS)	P'COL(AM) Practical batch B(L-11) (LT-SP)	Pharmacology (RK) Practical B-A (L-11)	Med. Chem. III (VD) Prac. B-B (L-1) (LT-SP)	CAP (DP) (Lateral Entry) Practical/Project Work	Project Work
	B4 (S-B)	F'Cog. Physo.(KV)	PP-II (AT)	F'Colgy (AM)									
	B6	HDT (SK)	P'Central Biotech. (PS)	Biopharm. (KV)	LUNCH	LUNCH	LUNCH	F'Cog & Physo (KV)	CCA	P'Colgy (SK)	Project Work	EVS(Sv.)	
B8	Biostatistics & RM (PR.)	Soc. Pharmacy (RK)	F'Cog & Physo (KV)	POC-3(STK) Prac. B-A (L-2) (LT-SKS), CAP Practical (DP) Batch-B									
Thursday	B2(S-A)	Patho (SK)	HAP-II (SD)	POC-I(STK)	LUNCH	LUNCH	LUNCH	Biochem. (VK)	HAP-II (SD)	EVS(Sv.)	CCA		
	B2(S-B)	Biochem. (VK)	Practical batch B (L-5) (LT-SKS)	CAP Practical (DP) Batch-A								PP-II (AT)	Library
	B4 (S-A)	F'Colgy (AM)	F'Cog & P'chem.(PS)	POC-III (VD)	LUNCH	LUNCH	LUNCH	Med.Chem-I (SH) Prac. batch B(L-1)(LT-SP), P'Colgy (AM)Practical batch A(L-1)	QA (P)	Biopharm. (KV)	CCA	P'Colgy (SK)	
	B4 (S-B)	POC-III (VD)	Med.Chem-I (SH)	PP-II (AT)									F'Cog & Physo (KV)
	B6	QA (P)	Biopharm. (KV)	HDT (SK)	LUNCH	LUNCH	LUNCH	F'Cog & Physo (KV)	CCA	P'Colgy (SK)	Project Work	EVS(Sv.)	
B8	Biostatistics & RM (PR.)	GPAT (RK)	Marketing (SLK)	POC-3(STK) Prac. B-A (L-2) (LT-SKS), CAP Practical (DP) Batch-B									
Friday	B2(S-A)	Patho (SK)	Biochem. (VK)	POC-I(STK)	LUNCH	LUNCH	LUNCH	CAP (DP)	Biochem(VK)	Library	EVS(Sv.)		
	B2(S-B)	HAP-II (SD)Prac. B-A (L-11), POC-I(STK) / Prac. B-B (L-1)(LT-SKS)	HAP-II (SD)	Library								HAP-II (SD)	POC-3(STK)
	B4 (S-A)	PP-II (AT) Prac. B-A(L-5)(LT-A), P'COL(AM)Practical batch B(L-1)	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	F'Cog & P'chem. (KV)	POC-III (VD)	Library	HAP-II (SD)	Med.Chem-I (SH)	
	B4 (S-B)	Med.Chem-I (SH)											PP-II (AT) Prac. B-A(L-5)(LT-A), P'COL(AM)Practical batch B(L-1)
	B6	Med. Chem. (VD)	P'Central Biotech. (PS)	HDT (SK)	LUNCH	LUNCH	LUNCH	F'Cog & Physo (PS)	P'Colgy (AM)	Library	Biopharm. (KV)		
B8	F'Cog & Physo (PS)	GPAT (Dr. S.K)	Soc. Pharmacy (RK)	POC-III (VD)								Library	CCA
Saturday	B2(S-A)	EVS(Sv.)	Biochem. (VK)	Patho (SK)	LUNCH	LUNCH	LUNCH	CAP (DP) (Lateral Entry)	Project Work	Library	HAP (SD)		
	B2(S-B)	HAP-II (SD)Prac. B-B(L-11)(LT-SP), POC-3(STK) Prac. B-A(L-1)(LT-SKS)	HAP-II (SD)	Library								POC-3(STK)	
	B4 (S-A)	PP-II (AT)Practical B-B(L-4)(LT-SKS) P'Colgy (AM)Practical B-A(L-1) (LT-SP)	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	F'Cog & Physo (PS)	P'Colgy (AM)	Library	Biopharm. (KV)		
	B4 (S-B)	Med.Chem-I (SH)										PP-II (AT) Prac. B-A(L-5)(LT-A), P'COL(AM)Practical batch B(L-1)	POC-III (VD)
	B6	HDT (SK)	Biopharm. (KV)	QA (P)	LUNCH	LUNCH	LUNCH	F'Cog & Physo (PS)	P'Colgy (AM)	Library	POC-III (VD)	CCA	
B8	Marketing (SLK)	Soc. Pharmacy (RK)	F'Cog & Physo (PS)	POC-III (VD)									Library

Number of MoUs collaboration/ linkages for faculty internship, student / faculty exchange

S.No	Number of MoUs collaboration /linkage	Name of collaboration agency/institution/industry/corporate house with whom the MoU's collaboration linkage is made with contact detail	Date of signing MoU's/collaboration	Year of signing MoU's/collaboration	List of actual activities under each MOU and web	Link to the document
1	The Pennsylvania State University	The Pennsylvania State University Latigh valley campus,Center valley campus	11-04-2024	Five year	Faculty and scholar exchanges, research project,professional training program	<a href="https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf">https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf</a>
2	Amritsar group of colleges,Amritsar	Amritsar group of colleges,Amritsar(P.B)	01-05-2024	Five year	Seminar,conferences	<a href="https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf">https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf</a>
3	Origen Analytical Laboratories ,Baddi	Origen Analytical Laboratories ,Baddi, Solan	07-05-2024	Five year	Interning, placement of students, guest lectures to the students	<a href="https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf">https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf</a>
4	Himachal institute of pharmaceutical education and research	Himachal institute of pharmaceutical education and research Naddan Hamirpur (H.P)	07-06-2024	Five year	Research development, collaboration in teaching, conducting study tours etc.	<a href="https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf">https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf</a>
5	Shree institute of pharmacy	Shree institute of pharmacy, Bilaspur(H.P)	07-06-2024	Five year	Research development, collaboration in teaching, conducting study tours etc.	<a href="https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf">https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf</a>
6	School of pharmacy and emerging sciences, Baddi university of emerging sciences & technology	School of pharmacy and emerging sciences, Baddi university of emerging sciences & technology Baddi (H.P)	10-06-2024	Five year	Research development, collaboration in teaching, conducting study tours etc.	<a href="https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf">https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf</a>
7	Sigma Softgel and Formulation	Sigma Softgel and Formulation Plot no. 171 HPSIDC industrial area ,Baddi	02-08-2024	Five year	Interning, placement of students, guest lectures to the students	<a href="https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf">https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf</a>
8	Maharaja Agrasen university	Maharaja Agrasen university solan,	10-08-2024	Five year	Research development, collaboration in teaching, conducting study tours etc.	<a href="https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf">https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf</a>
9	Amar Shaheed Baba Ajit Singh Jujher Singh Memorial College of Pharmacy ,Bela	Amar Shaheed Baba Ajit Singh Jujher Singh Memorial College of Pharmacy ,Bela ,Rapar	11-01-2023	Five year	Seminar, conferences etc.	<a href="https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf">https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf</a>
10	Elera technology private limited	Elera technology private limited	04-03-2025	Five year	Storage of E-waste	<a href="https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf">https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf</a>
11	Minerva college of pharmacy	Minerva college of pharmacy Indora Kangra	27-05-2023	Five year	Research development, collaboration in teaching, conducting study tours etc.	<a href="https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf">https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf</a>
12	Suraksha Bio Sanitizer	Suraksha Bio Sanitizer Gaggal Distt, Kangra(H.P)	21-05-2023	Three year	Bio medical waste	<a href="https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf">https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf</a>
13	Plena Remedies	Plena Remedies Plot No-17 industrial area ,Bhatoli Kalan, Baddi	03-01-2020	Five year	Interning, placement of students, guest lectures to the students	<a href="https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf">https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf</a>
14	Yuvanta life science	Yuvanta life science plot no.7& plot no.8 industrial area baddi	11-11-2019	Five year	Interning, placement of students, guest lectures to the students	<a href="https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf">https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf</a>
15	Tata consultancy services limited company incorporated	Tata consultancy services limited company incorporate with its corporate office located at TCS house, Ravvelhe strt 2103 Mang. Mumbai 400001	07-04-2018	Three year	Application development, cybersecurity /data services	<a href="https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf">https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf</a>
16	NEET Ltd. registered office at Trade Globe.	NEET Ltd. registered office at Trade Globe, Ground floor, Jh.M.V. Road, Andheri -kurla Road, Andheri(East), Mumbai-400059	15-06-2016	Renew every year	Exam center	<a href="https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf">https://gcophamirgur.in/Content/Documents/202405080807MOU.pdf</a>

On job training		
Name of collaboration agency/industry	Date/Year of signing /collaboration	List of actual activities
Oxigen Analytical Laboratories ,Baddi,Solan.	07-05-2024/Five year	training,guest lectures to the students

  
Director  
Gautam Institute of Pharmacy  
Hamirpur (H.P.)-177001

MEMORANDUM OF UNDERSTANDING

between

GAUTAM GROUP OF COLLEGES

(GGC)

Hamirpur, HP, India

and

THE PENNSYLVANIA STATE UNIVERSITY

Lehigh Valley Campus

Center Valley, Pennsylvania, United States of America

THIS MEMORANDUM OF UNDERSTANDING ("MOU") is made and entered into as of the date of last signature by and between Gautam Group of Colleges (GGC) and The Pennsylvania State University, on behalf of its Lehigh Valley Campus ("Penn State" and, together with "GGC", each a "Party" and together, the "Parties").

WHEREAS, GGC and Penn State desire to explore potential research, teaching, and educational opportunities through which the Parties may collaborate; and

WHEREAS, the Parties desire to enter into this MOU for the purpose described above.

NOW THEREFORE, the Parties hereby agree to the following:

- 1. Scope.** Consistent with applicable law, the Parties' respective policies, and subject to the terms of this MOU, the Parties will explore engaging in the following types of collaboration, which must be mutually agreed upon in each such case:

  - Professional training programs;
  - Faculty and scholar exchanges;
  - Joint research projects and educational programs;
  - Exchange of scientific materials, publications and information; and/or
  - Developing and conducting joint seminars and other academic events.
- 2. Activities under this Memorandum of Understanding.** Activities taking place under this MOU will be initiated primarily by academic units within each Party, and in coordination with their respective administrative units concerned with international activities. All activities undertaken must conform to the policies and procedures in place at each Party. Teaching beyond occasional lectures must be approved by the appropriate units within each Party.
- 3. Planning, Management, and Funding of Activities.** Each distinct area of collaboration or activity will require a separate written agreement. Collaborating units are encouraged to work

Page 1 of 3

Director, Pharmacy  
Gautam Group of Colleges of Pharmacy  
Hamirpur (H.P.)-177001

together to identify and secure outside funding as needed. Financial arrangements and obligations for each activity shall be stipulated in a separate agreement prior to the initiation of any such activity.

4. Nondiscrimination. Penn State is committed to equal access to programs, facilities, admission and employment for all persons, including without limitation, equal access to programs, facilities, admission, and employment without regard to personal characteristics not related to ability, performance, or qualifications as more fully set forth in applicable Penn State policies. Subject to applicable law, the Parties shall abide by the foregoing principles of nondiscrimination and equal access in the administration of all programs and agreements described in this Agreement, and neither Party shall impose criteria on any scholars, faculty, students or staff which would violate these principles of nondiscrimination. Nothing herein shall be deemed to create any obligation for either Party to violate any applicable law, statute, code or guideline in order to provide such access.

5. Intellectual Property Rights. This MOU is only intended to address research and academic cooperation and does not, nor shall it be construed to, cover the generation of intellectual property. Any intellectual property generated shall be covered under a separate agreement.

6. Export Control. The Parties hereby acknowledge that performance and obligations hereunder may be subject to applicable export laws, and, to the extent such controls are applicable, performance of some desired activities under this MOU may be delayed, restricted or prohibited. Neither Party shall have any obligation to obtain clearances to perform any function, activity, effort, proposal or program which is deemed by such Party to be restricted by applicable export laws, and any refusal to perform such function, activity, effort, proposal or program as a result of a decision not to obtain necessary clearances shall not constitute a breach of this MOU.

7. Use of Name, Logo, and Mark. Neither Party may use the name, logo, or mark of the other in any promotional or advertising material (including but not limited to website postings, public announcements and program brochures) without the prior written consent of the other Party pursuant to each Party's policies.

8. Evaluation of Collaboration. All specific programs or projects undertaken pursuant to this MOU will be subject to mutual periodic evaluation by each Party's appropriate stakeholders.

9. Execution; Counterparts. This MOU may be executed in any number of counterparts, each of which shall be deemed to be an original, and all of which together shall be deemed to be one and the same agreement or document. Signatures and signed copies of this MOU transmitted by facsimile, email or other means of electronic transmission shall constitute effective execution and be deemed to have the same legal force and effect as delivery of an original executed copy of this MOU for all purposes.

10. Term, Amendment, Renewal, Termination. This MOU will become effective on the date of the last signature, for a period of 5 years. It constitutes the entire agreement between the Parties

and may only be amended or renewed in writing signed by authorized representatives of both Parties. Each Party shall have the right to terminate this MOU by providing written notice to the other Party at least thirty (30) days prior to the effective date of termination.


IN WITNESS WHEREOF, this Memorandum of Understanding has been executed by the Parties as of the last day written below:

THE PENNSYLVANIA STATE UNIVERSITY

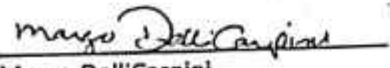
GAUTAM GROUP OF COLLEGES

  
Tina Richardson  
Chancellor for  
Penn State Lehigh Valley

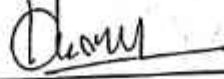
4/11/24  
Date

  
Dr. Rajneesh Gautam  
Secretary  
GGC Hamirpur

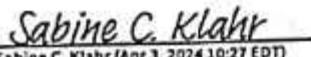
11/04/2024  
Date

  
Margo DelliCarpini  
Vice President for Commonwealth  
Campuses and Executive Chancellor

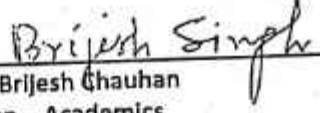
4/2/2024  
Date

  
Dr. Himesh Sharma  
Adviser & Consultant Corporate  
Relations, GGC Hamirpur

11/04/2024  
Date

  
Sabine C. Klahr (Apr 3, 2024 10:27 EDT)  
Sabine Klahr  
Interim Vice Provost for  
Penn State Global

03-Apr-2024  
Date

  
Dr. Brijesh Chauhan  
Dean - Academics  
GGC Hamirpur

11-04-2024  
Date

  
Richard D. Elmore  
Chief Procurement Officer

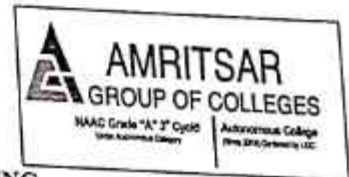
03-Apr-2024  
Date

  
Dr. Brijesh Chauhan  
Dean - Academics  
Gautam Group of Colleges  
Hamirpur (H.P.)-177001



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### MEMORANDUM OF UNDERSTANDING

Gautam College of Pharmacy, Hamirpur (H.P.)  
&  
Amritsar Group of Colleges, Amritsar (PB)

This MEMORANDUM OF UNDERSTANDING entered into on this 20<sup>th</sup> day of April, 2024

BETWEEN

Gautam College of Pharmacy, Hamirpur, through its Director em Principal Dr. Sanjay Kumar for Gautam College of Pharmacy, Hamirpur, having expertise in the areas of scientific, Pharmaceutical education and research, affiliated college of HPTU as the First Part.

&

The Amritsar Group of Colleges, Amritsar (Pharmaceutical Sciences Department) (PB) Through the Principal (Pharmacy) Dr. Sorabh Sehajpal Amritsar, having expertise in the areas of scientific, Pharmaceutical education and research, as the Second Part.

WHEREAS, Gautam College of Pharmacy, Hamirpur and Amritsar Group of Colleges, Amritsar (Pharmaceutical Sciences) have many areas of common interest in Pharmacy and Sciences, considerable advantage may be gained from their pursuit on a collaborative basis in the fields of academics, education and research.

NOW THEREFORE Gautam College of Pharmacy, Hamirpur and Amritsar Group of Colleges, Amritsar (Pharmaceutical Sciences) have decided to enter into this Memorandum of Understanding (hereinafter referred to as MoU), which defines the framework for the cooperation of the two institutions set out in the following sections.

#### ARTICLE 1: OBJECT

Both Institutes agree to develop the following collaborative activities in the academic areas of mutual interest, on a basis of equality and reciprocity.

The two institutions shall seek to promote

#### a. Faculty/Scientist/Staff Exchanges

- The exchange of faculty to the mutual benefit of both institutions.
- Collaboration in teaching, research and development, and consultancy studies in the field of mutual interest.

Gautam College of Pharmacy  
Hamirpur (H.P.)-177001



No. 7554 Date 01-05-21  
Name Dr. Sanjay Kumar  
Vill/Ward huz  
State 437 : STATE PRADESHI PEANI

- (iii) The exchange of academic materials and publications.
- (iv) Conducting lectures.
- (v) Undertaking joint research.
- (vi) Attachment of staff for purposes of curriculum development and review, attendance of courses, upgrading of teaching and research skills.
- (vii) Participating in seminars, symposiums, and other types of academic discussions.
- (viii) Co-supervising post graduate / Doctoral Students.
- (ix) Conducting study tours and joint consultancy work.

A specific plan will be worked out for each activity; setting forth detailed arrangements for collaboration will be agreed. Terms and conditions for each visit or an assignment or such exchange, including those concerning salary, travel funding and housing will be worked out between the institutes. A separate agreement will be entered into giving such details including term of exchange of any intellectual property.

#### ARTICLE II: COORDINATION

Each institution shall appoint one member of its teaching/research faculty to coordinate the programme on its behalf. Further, a coordination committee consisting of a programme coordinator from the side of Gautam College of Pharmacy, Hamirpur, and a programme coordinator from the side of Amritsar Group of Colleges, Amritsar (Pharmaceutical Sciences) (PB), will periodically review and identify ways to strengthen cooperation between the two institutions.

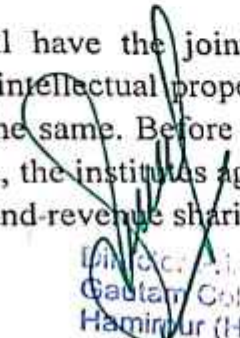
#### ARTICLE III: CONFIDENTIAL INFORMATION

Gautam College of Pharmacy, Hamirpur and Amritsar Group of Colleges, Amritsar (Pharmaceutical Sciences) Both does not absolve any confidential information during the research activity.

#### ARTICLE IV: INTELLECTUAL PROPERTY RIGHTS

Ownership of any intellectual property (including but not limited to confidential information, know-how, patents, copyrights, design rights, rights relating to computer software, and any other industrial or intellectual property rights) developed jointly during the course of this MOU shall be vested in both institutes to this Memorandum.

Both institutes shall have the joint right to determine the commercial exploitation and disposition of such intellectual property, and both institutes shall make joint applications for the registration of the same. Before any registration or commercialization of any intellectual property takes place, the institutes agree to reach a separate agreement covering issues such as exploitation rights and-revenue sharing.

  
Director, Intellectual  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

Any publication regarding such intellectual property shall only be possible with the prior written consent of both institutes, such consent not to be unreasonably withheld.

Gautam College of Pharmacy, Hamirpur or Amritsar Group of Colleges, Amritsar (Pharmaceutical Sciences) (PB) shall be free to use perpetually the results arising out of the collaborating activities for its own internal teaching, research, educational, clinical and publication purposes without the payment of royalties or other fees to the other party.

#### ARTICLE V: VALIDITY

The Memorandum shall remain in force for a period of **FIVE** years commencing from effective date. Institutions may extend the term by written agreement signed by both after review.

#### ARTICLE VI: TERMINATION

Either institution may terminate the MoU by giving written notice of **SIX MONTHS** in advance to the other institution. Once terminated, neither Gautam College of Pharmacy, Hamirpur nor Amritsar Group of Colleges, Amritsar (Pharmaceutical Sciences) (PB) will be responsible for any losses, financial or otherwise, which the other institutions may suffer.

However, Gautam College of Pharmacy, Hamirpur and Amritsar Group of Colleges, Amritsar (Pharmaceutical Sciences) (PB) will ensure that the provisions of this Memorandum shall continue to apply to all activities in progress until their completion.

#### ARTICLE VII: AMENDMENTS/MODIFICATIONS

This MoU may be amended or modified by a written agreement signed by the representatives of both institutes.

#### ARTICLE VIII: ADHERENCE TO LAWS

Participating faculties, staff and students involved in any activities under this Memorandum must adhere to the law of the host countries and rules and regulations of the institutions.

#### ARTICLE IX: LEGAL EFFECT

Nothing in this Memorandum shall be construed as creating any legal relationship between the institutes. This Memorandum is a statement of intent to foster genuine and mutually beneficial collaboration.

#### ARTICLE X: DISPUTE RESOLUTION

In case, there is a dispute relating to any aspect of academic cooperation, Director cum Principal, Gautam College of Pharmacy, Hamirpur and Amritsar Group of Colleges, Amritsar (Pharmaceutical Sciences) (PB) will jointly resolve the dispute in a spirit of independence, mutual respect, and shared responsibility.

Director cum  
Principal  
Gautam College of Pharmacy  
Hamirpur (P.O.) 197001

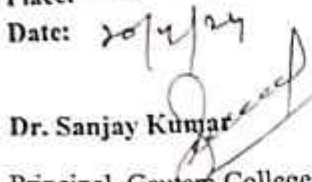
Gautam College of Pharmacy, Hamirpur and Amritsar Group of Colleges, Amritsar (Pharmaceutical Sciences) (PB) welcome the establishment of this Memorandum for cooperation and jointly agree to the provisions as set out above.

IN WITNESS WHEREOF, the parties here to have executed this indenture (MOU) the day the year First here in above written.

  
Dr. Rajneesh Gautam

Secretary, Gautam Group of Colleges,  
Hamirpur

Place: <sup>GCC</sup> Hamirpur.  
Date: 20/4/24

  
Dr. Sanjay Kumar

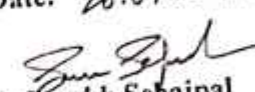
Principal, Gautam College of Pharmacy,  
Hamirpur (Himachal Pradesh)

Place: <sup>GCC</sup> Hamirpur  
Date: 20/4/24

  
Dr. PS Pannu

Registrar, Amritsar Group of  
Colleges, Amritsar (PB)

Place: <sup>Hamirpur</sup>  
Date: 20.04.24.

  
Dr. Sorabh Sehajpal

Principal, Amritsar Group of Colleges  
(Pharmaceutical Sciences), Amritsar (PB)

Place: <sup>GCC Hamirpur</sup>  
Date: 20/4/24.

  
Dr. Rajneesh Gautam  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001



MEMORANDUM OF UNDERSTANDING BETWEEN  
GAUTAM COLLEGE OF PHARMACY  
AND

OXIGEN ANALYTICAL LABORATORIES  
(FDA Approved, NABL Accredited & ISO Certified Laboratory)

Providing students for placements, Industry visits & Industrial training etc.

This Memorandum of Understanding (here in after called as the 'MOU') is made at Gautam college of pharmacy on 07 May, 2024.

Gautam College of pharmacy, here in after referred to as "GCOP", Ward no 10 Near bus stand District: Hamirpur, Himachal Pradesh - 177001 Represented by: \_\_\_\_\_

And

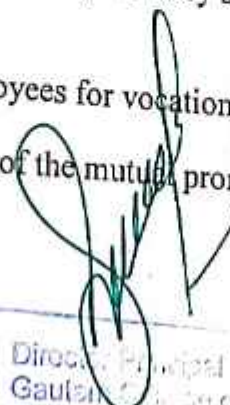
Oxygen Analytical Laboratories Khasra No. 320/321, Village Malpur, Near New CDSO Office, Tehsil Baddi, Distt. Solan- (HP) hereinafter referred to as "Oxygen Analytical Laboratories." (which term shall so far as the context admits to be deemed to mean and include its successors, executors and assignees). THE SECOND PARTY represented here in by its \_\_\_\_\_

### PURPOSE OF MOU

In particular, this MOU is intended to

1. Arrange the placements for GCOP students when required into different departments.
2. Organize industrial trainings of all pharmacy students and industrial visits as per Requirement
3. Company will provide employees for vocational courses as per requirement.

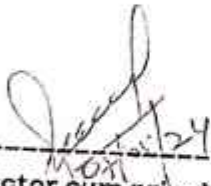
Now therefore, in consideration of the mutual promises set forth in this MoU, the parties hetero agree as follows


  
Director, Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

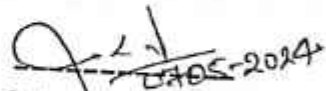


# MEMORANDUM OF UNDERSTANDING

The Memorandum of understanding has been signed between  
**GAUTAM COLLEGE OF PHARMACY**  
and  
**OXIGEN ANALYTICAL LABORATORIES**  
(FDA Approved, NABL Accredited & ISO Certified Laboratory)  
for  
Placements, Industrial trainings, Industrial Visits of Students.

  
Director cum principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)

  
Director cum principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

  
Oxygen Analytical  
Laboratories,  
Baddi (H.P.)

## Clause 1 CO-OPERATION

1.1 Both parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations. The parties shall keep each other informed of potential opportunities and share all information that may be relevant to secure additional opportunities for one another.

1.2 The co-operation between First Party and Second Party will facilitate effective utilization of the intellectual capabilities of the Second Party providing significant inputs to them in developing suitable teaching/ training systems, keeping in mind the needs of the First Party.

## Clause 2 SCOPE OF THE MOU

2.1 Both parties believe that close co-operation between the two would be a major benefit to the student community to enhance their skills and knowledge.

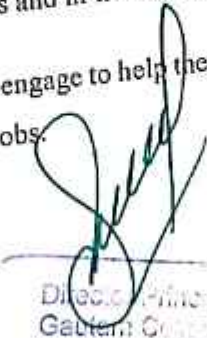
2.2 The Second Party will give valuable inputs to the First Party in teaching/ training methodology so that the students fit into the industrial scenario meaningfully.

2.3 The interaction between Industry and Community College Centre will give an insight into the latest developments /requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs/ Workshops/ Industrial Sites for the hands-on training of the learners enrolled with the First Party.

2.4 The Second Party will train the students of the First Party on the emerging technologies in order to bridge the gap in skill and make them ready for industry.

2.5 The Second Party will extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in-house requirements.

2.6 The Second Party will actively engage to help the delivery of the training and placement of students of the First Party into internships/jobs.

  
Director, Principal,  
Gautam College of Pharmacy  
Hamapur (H.P.)-477001

**Clause 3 VALIDITY**

3.1 This MoU will remain valid for Five year and may be continued thereafter after suitable review and agreement.

3.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations.

3.3 Any dispute will be settled mutually.


This MoU is signed subject to approval of the respective academic/administrative bodies.


**Clause 4**


First Party Gautam college of Pharmacy will use company logo of Second Party Oxygen Analytical Laboratories for the purpose of Marketing Such as in Advertisement Material, in Events, In Prospectus and in brochures along with other logos.

**AGREED**

  
Secretary  
7/5/2024  
Gautam Group of Colleges

  
Director  
On Behalf of Oxygen Analytical  
Laboratories

  
Witness  
7/5/24  
Director  
Gautam College of Pharmacy

  
Witness  
7.05.24  
On Behalf of Oxygen Analytical  
Laboratories

  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001





## MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

**AMAR SHAHEED BABA AJIT SINGH JUJHAR SINGH MEMORIAL  
COLLEGE OF PHARMACY, BELA (Ropar)  
(An Autonomous College)  
AND**



**GAUTAM COLLEGE OF PHARMACY HAMIRPUR (H.P.)-177001**

This Memorandum of Understanding (MoU) is entered into this 11th day of March, 2023 between Amar Shaheed Baba Ajit Singh Jujhar Singh Memorial College of Pharmacy, Bela (COP-BELA) and Gautam College of Pharmacy Hamirpur (GCOP)

This expression of COP-BELA and GCOP and shall, however, mean and include the institutions, organizations, their successors' appointee, assignees etc. Both the organizations have decided to sign the present MoUs which will be governed by the clauses and conditions below.

### Section 1

#### OBJECTIVE

COP-BELA and GCOP agree to promote co-operation, in areas of mutual interest through appropriate means as follows-

- Mutual training of students and researchers.
- COP-BELA and GCOP will collaborate with each other for research, development and training facilities.
- Promotion of educational training and research activities.
- Exchange of scientific information and academic publications.
- Holding of lectures and workshop for mutual benefit in the area of common interest. Promote or Participate in the seminars, conferences, conventions organized by the Institute in the areas of Education and Research.

### Section 2

#### HOW TO OPERATE

The operation of the present Protocol shall happen through the collaboration of specific projects programs agreed by the parties involved, taking into account all the legal requirements.

### Section 3

#### PERFORMANCE

In each specific case of co-operation, the parties involved should prepare a written work programme related to the ways with specific measures for the implementation of the objectives. In order to execute the projects, programmes, student exchanges, or joint activities, the parties involved will enter into specific agreements establishing the aims, actions, the financial Implications, deadlines, physical and/or human resources, as well as any other obligation to be carried out in the conformity with the relevant legislation.

### Section 4

#### RESOURCES

It is recognized that the implementation of the Present Protocol will in each case depend upon the availability of necessary resources, either from within the institutions concerned or from external source

Director  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

*[Handwritten signature]*

Each party will make every effort to raise funds from diverse sources in order to make possible the mutual programmes. Any programme prepared according to section 2 will only be realized after the appropriate resources have been allocated.

#### **Section 5 CO-ORDINATION**

For specific agreement, each of the interested parties will choose a co-coordinator who will serve as a contact and resolve issues relating to the specific agreement.

#### **Section 6 INTELLECTUAL PROPERTY**

Each Party shall respect to the intellectual property rights of the other Party. All pre-existing intellectual property rights shall continue to belong to and vest in the Party that owns the same. The Parties agree that they will enter into separate collaboration agreements regarding the actual research collaboration, stems from this MoU. In such collaboration/ agreements the Parties will decide mutually on the ownership of any intellectual property rights of other results generated in the research project as per norms.

#### **Section 7 VALIDITY**

This Protocol has the validity of five (5) years from the date of signing, and either party, can cancel it by providing 30 (thirty) days written notice in advance to the other party. The MoU will be renewed after 5 years.

#### **Section 8 ALTERATIONS**

The present Protocol can be amended by mutual written agreement of the two parties.


#### **Section 9 SETTLEMENT OF DISPUTE**

That any dispute arising out of this MoU or in its enforcement, the concerned parties to this MoU will resolve the same amicably. However, in case the dispute remains unresolved it shall be referred to an arbitrator appointed by mutual consent of both the parties subject to the jurisdiction of court Chandigarh. The decision of the authority shall be final and binding upon the parties concerned.

**IN WITNESS WHEREOF**, both the parties herein set their respective hands on the day, month and year in the presence of the following witnesses.

**Prof. (Dr.) Shailesh Sharma**  
Director  
ASBASJM  
College of Pharmacy,  
BELA (Ropar)

**Prof. (Dr.) J. S. Badhan**  
Director  
Gautam College of Pharmacy  
Hamirpur

  
Dir  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

FACILITIES AGREEMENT

THIS FACILITIES AGREEMENT (this Agreement) is made effective as of the Effective Date specified in Schedule 1 by and between Tata Consultancy Services Limited, a company incorporated under the Companies Act 1956, with its corporate office located at TCS House, Haveli no. Street 31 D S Marg, Fort, Mumbai 400017, hereinafter referred as "TCS" (which expression shall include its successors and assigns) and the Party specified in the Schedule 1 to this Agreement hereinafter referred as "LISP" (which expression shall include the contract requires otherwise, includes its successors and permitted assignor and to end infrastructural support) for work as defined in the Scope of Services below. In this Agreement, TCS and LISP are collectively referred as "Parties" and individually as a "Party".

WHEREAS

- a) TCS has certain shared software applications ("TCS Application System") which will be accessed/divided by its customers ("Services"),
- b) TCS needs certain infrastructure and facilities for delivering the Services to its Customers effectively and LISP agreed to provide such infrastructure and Facilities ("Facilities").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. Definitions:-  
 "Authorized Personnel" means only those individuals (working for and on behalf of TCS), who have a bona fide need to have access to Facilities in connection with the use of Services by Customer under this Agreement.

"Confidential Information" shall mean and include all business strategies, plans and procedures, proprietary information, software program, documentation, tools, processes, methodologies, data and trade secrets, information relating to customers, employees, or business partners, and any other confidential or proprietary information and materials of the Disclosing Party, its affiliates, clients or suppliers that may be received or obtained by the Receiving Party as a result of this Agreement.

"Customer" shall mean the customer or customers of TCS to whom TCS is required to render Services from or using the Facilities.

"Facilities" shall mean the facilities as set out in Clause 1 on Schedule 2.

"LISP" shall mean Local Infrastructure Service Provider.

"Location" shall mean the locations or places of the LISP as specified in Schedule 1 where the Facilities shall be made available to TCS.

"LISP Hardware" shall mean the hardware listed in Clause 2 in Schedule 2 and made available by the USP to TCS for use during the Usage Period communicated by TCS.

"Term" shall mean the term as set out in the Schedule 1.

"Usage Period" - For LISP Hardware, it is the period when TCS shall utilize the Facilities for its business requirement which shall be notified under the relevant Work Order by TCS to the LISP. In case of a change in the Usage Period, such revised Usage Period shall be notified by TCS from time to time through a written notice to the LISP.

Scope of Services:-TCS requires an end to end infrastructural support to use the Facilities as set out in Clause 1 of Schedule 2 during the Usage Period for the Term of this Agreement. This Agreement is to ensure outsourcing of the work for conduct of the exam however the consideration for the same is being determined on usage basis of the facilities used as per Clause 3 in Schedule 2. From time to time TCS shall notify the LISP of its requirement to use the Facilities prior to the commencement of the Usage Period. This will be done by TCS by issuing specific Work Orders. Facilities shall be made available for exclusive use of TCS during the Usage Period as communicated by TCS. TCS has the right to postpone the Usage Period which shall be notified to the LISP as stated in this Agreement. LISP understands and agrees that time is of the essence of this Agreement and in the event of non-availability of the Facilities during Usage Period, TCS and its Customers would incur irreparable loss and damage both financial and reputational. LISP acknowledges that LISP shall make good such loss suffered by TCS and its Customers.

2. Term and Renewal:-This Agreement is effective during the Term as set out in Schedule 1 unless terminated earlier in accordance with the provisions of this Agreement.

3. Obligations of the LISP:- LISP shall make available the Facilities in working condition to TCS for the Usage Period throughout the Term. LISP shall allow free access to the Locations and the Facilities to TCS and its Customers and shall assist and co-operate with TCS to enable TCS to render Services to its Customers. LISP shall also ensure that Location is free of disturbance while TCS is using the same. In the event, the LISP has agreed to provide personnel as part of Facilities, the LISP shall ensure that such personnel have necessary expertise as required by TCS. LISP shall ensure that the power supply and its back up in form of diesel generator is available and is in working condition along with availability of fuel, back up electrical cables, electrician, as stated in Schedule 2 of this Agreement. LISP shall ensure that all nodes are networked and network connectivity is available at all times as mentioned in Schedule 3. LISP shall, at all times, comply with all applicable Facilities and/or Location related statutory laws, rules, regulations or policies including confidentiality and other obligations under this Agreement. LISP shall also procure and maintain all required approvals, permission, and consent throughout the term of this Agreement. LISP shall also obtain written consent from TCS before undertaking any maintenance activity with respect to Facilities which may jeopardize the timelines as stated in the Work Order issued by TCS to the LISP. LISP shall also on regular intervals and/or when required by TCS or by applicable statutory authorities provide proof for compliance with all applicable laws, regulations or policies and any such approvals, permission, consents. LISP shall maintain the Facilities for exclusive use by TCS during the Usage Period.

4. Fees:- TCS shall pay Fees to LISP as per Clause 3 in Schedule 2, after deduction of applicable tax at source (TDS) and provide LISP certificate in prescribed format for such deduction. All Fees payable under this Agreement shall be exclusive of applicable indirect taxes.

5. Representation and Warranties:- Each Party represents, warrants and covenants to the other that (i) it is duly organized and validly existing and in good standing under the laws of the country and shall comply with all applicable Laws, (ii) it has the full right and authority to enter into the Agreement and to perform all the obligations (including providing Facilities) under this Agreement and that this Agreement constitutes a legal, valid and binding obligation, and (iii) its execution, delivery and performance of this Agreement does not and will not conflict with, or constitute a breach or default under, its charter of organization or any contract or other instrument to which it is a party. Further, LISP warrants that all the Facilities provided as per Schedule 2 are in working condition throughout the Term and in the event they are not in working condition, LISP shall get it repaired at its own cost. LISP warrants that it has paid all applicable fees, charges, taxes etc. with respect to Facilities provided to TCS and shall be liable to pay any such applicable fees, charges, taxes etc. during the term of this Agreement. LISP shall indemnify, defend and hold harmless TCS and the Customer from and against any and all liabilities, damages, claims, fines, penalties, and expenses of whatever nature arising or resulting from breach of the aforesaid warranties or from the violation of any laws, rules, regulations or statutory requirements.

6. Limitation of Liability:- TCS shall not be liable to the LISP for any special, indirect, incidental, consequential (including loss of

TCS Proprietary and Confidential

Principal  
 GANESH COLLEGE  
 HAMIRPUR (H.P.)

Dr. C. S. Principal  
 Ganesh College of Pharmacy  
 Hamirpur (H.P.)-177001

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revenue and/or profit) exemplary or punitive damages whether in contract law or other theories of law, even if TCS has been advised of the possibility of such damages. The total cumulative liability of TCS under the Agreement shall not exceed in aggregate the amount paid by TCS to the LISP under this Agreement.

7. Confidential Information: - Each Party receiving the Confidential Information (the "Receiving Party") acknowledges and agrees to maintain the confidentiality of Confidential Information provided by the other Party (the "Disclosing Party") hereunder. The Receiving Party shall not disclose or disseminate the Disclosing Party's Confidential Information to any person other than those employees, agents, contractors, subcontractors and licensees of the Receiving Party, or its affiliates, who have a need to know it in order to assist the Receiving Party in performing its obligations, or to permit the Receiving Party to exercise its rights under this Agreement. The provisions of this Clause with respect to Confidential Information shall not apply to the extent that such Confidential Information is: (a) already known to the Receiving Party free of any restriction at the time it is obtained from the Disclosing Party, (b) subsequently learned from an independent third party free of any restriction and without breach of this provision, (c) is or becomes publicly available through no wrongful act of the Receiving Party or any third party, (d) is independently developed by the Receiving Party without reference to or use of any Confidential Information of the Disclosing Party or (e) is required to be disclosed pursuant to an applicable law, rule, regulation, government requirement or court order, or the rules of any stock exchange. Upon the Disclosing Party's written request at any time, or following the completion or termination of this Agreement, the Receiving Party shall promptly return to the Disclosing Party, or destroy, all Confidential Information of the Disclosing Party provided under or in connection with this Agreement, including all copies, portions and summaries thereof.

8. Intellectual Property Rights:- LISP agrees that TCS Application System, deliverables and work products created or developed by TCS or its employees, representatives etc. using TCS Application System and/or Facilities under this Agreement, together with any associated copyright and other intellectual property rights, shall be the sole and exclusive property of TCS. TCS is allowed to use the name and address of the LISP which may be necessary to render the Services to its Customers.

9. Termination - (9.1) Termination for convenience by TCS. TCS is entitled to terminate this Agreement by giving fifteen (15) days prior written notice to the LISP. It is acknowledged and agreed between the Parties that LISP does not have right to terminate this Agreement for convenience. In the event if LISP terminates this agreement for convenience, the same shall be construed as material breach of this Agreement and TCS shall have the right to claim appropriate damages under the Law and this contract.

(9.2) Termination for Material Breach. Either Party may terminate this Agreement immediately by a written notice to the other Party in the event of a material breach which is not cured within thirty days of the receipt of the said notice period. Failure of LISP to abide by the Service Levels and

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their duly authorized representatives

GAUTAM GROUP OF COLLEGES

By: 

Name: Dr. Rameesh Gautam

Title: Principal

(Annual access by LISP to TCS on the Facilities shall be termed as material breach and the Agreement shall immediately be terminated by TCS

(10.3) Check of termination. Either party shall return to other party any of other party's confidential and proprietary information and material in its possession. LISP agrees that in the event of expiry or termination of this Agreement for any reason any accepted and unexecuted Work Order shall be executed by the LISP and all the obligations under such Work Order shall be performed by the LISP.

10. Miscellaneous: - (10.1) Independent Contractors and Assignment. LISP shall not assign or transfer this Agreement or any obligations hereunder to any third party without the prior written consent of TCS.

(10.2) Change Request: Any changes to this Agreement shall be in the form of change order ("Change Request") as attached in Schedules 4 and shall be signed by both Parties.

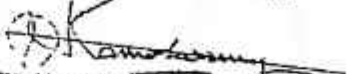
(10.3) Governing Law, Dispute Resolution and Jurisdiction. This Agreement shall be governed by and interpreted in accordance with the laws of India. All disputes arising between the Parties, out of this Agreement shall be referred for arbitration to a sole Arbitrator to be mutually agreed upon and proceedings shall be governed by the Arbitration and Conciliation Act 1996. The venue and seat of arbitration shall be Mumbai. Subject to arbitration, the courts in Mumbai shall have exclusive jurisdiction.

(10.4) TCS Supplier Code of Conduct. The business engagement of TCS with the LISP is regulated by the TCS Supplier Code of Conduct. All agencies dealing with TCS like the LISP herein are also bound by the said TCS Supplier Code of Conduct. The LISP agrees to at all times abide by the said Code and shall promptly inform TCS of any breach or threatened breach of the Code by any person by informing to the Local Ethics Counselor or the Principal Ethics Counselor or the CEO of TCS. In turn, undertakes that it will maintain confidentiality of such communication received. Violations and concerns can be reported confidentially via email to corporate.ethics@tcs.com. The TCS Supplier Code of Conduct can be viewed at [HTTP://WWW.TCS.COM/SITECOLLECTIONDOCUMENTS/ABOUT%20TCS/TCS - SERVICE PROVIDER\\_CODE\\_CONDUCT\\_07\\_2011.PDF](http://www.tcs.com/sitecollectiondocuments/about%20TCS/TCS_SERVICE_PROVIDER_CODE_CONDUCT_07_2011.PDF)

(10.5) Entire Agreement. This Agreement sets forth the entire understanding of the Parties and supersedes all prior agreements and understandings between the Parties, with respect to the subject matter hereof.

(10.6) Notice - Any notice in connection with this Agreement shall be in writing in English and delivered by hand, facsimile, email (as specified in the Work Order) registered post or courier of international repute to the address mentioned in the Introduction clause or any other address as may be informed to each other in writing by the Parties.

TATA Consultancy Services Ltd.

By: 

Name: Mr. Venguswamy Rameswamy

Title: Global Head - TCS IQN

TCS Proprietary and Confidential

  
PRINCIPAL,  
GAUTAM COLLEGE,  
HAMIRPUR (H.P.)

Gautam Group of Colleges,  
Hamirpur (H.P.) - 177001

Version 01

SCHEDULE 4  
CHANGE REQUEST

No change to any Scope of Services shall be binding on the Parties unless the Change Request to the Facilities Agreement dated (Facilities Agreement) has been signed by authorized representatives of each party

Change Request  
No.: \_\_\_\_\_

Date Initiated: \_\_\_\_\_ Initiated by: \_\_\_\_\_

The following changes to the schedules to the Facilities Agreement are hereby approved by both the parties:

Description of Change:

Following are the changes/additions agreed to:

- a) Schedule 1
- b) Schedule 2
- c) Schedule 4

Approved

Tata Consultancy Services Limited

Authorized Signatory

Date

LISP

Authorized Signatory

Date

7/4/2018

PRINCIPAL  
GAUTAM COLLEGE  
HAMIRPUR (H.P.)

ILS Proprietary and Confidential

Version 01

Director Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

**SCHEDULE I  
TERMS OF AGREEMENT**

Licencee	Licensor Entity	Registered office address	Authorized Signatory Details	Details of Contact Person	Licensor Name
Gautam College of Pharmacy	Rajesh Chandra Pharmacy Gautam College	Plot No. 15, Near, B.A. Station, Hamirpur, H.P.	Dr. Rajesh Chandra Principal	Dr. Rajesh Chandra Principal Gautam College 0419110420	Hamirpur
<b>Agreement Term</b>		<b>Effective Date</b>			
From 01/01/2018 to 31/12/2018		22/01/2018			

I hereby certify that the above information is true and correct to the best of my knowledge and belief.

*(Handwritten Signature)*

Director, Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

- c. Other Reimbursements \* Basis of actual utilization LISP is entitled to charge TCS for reimbursements of expenses on actual spend as defined below

#	Description	Price
1	Surveillance Camera facility to record a session	Rs. 10 per node per day
2	Print Per Sheet	Rs. 1 per sheet

- TCS shall pay food expenses to LISP maximum upto Rs. 4 per candidate as per exam specific guidelines for providing food to TCS &/or LISP staff and Observers from examination conducting body on the day of the examination.
  - TCS shall pay maximum upto Rs. 2 per candidate as per exam specific guidelines to the LISP towards miscellaneous expenses incurred during the day of the examination.
- d. Diesel Generator Cost: LISP will charge TCS for reimbursement of diesel expenses for the DG usage at rates specified below

Sr. No.	Description	Rate
1	Diesel Cost	Rs. 4.5 per candidate

Number of Shift	Single Shift	Double Shift	3 or More Shift
Minimum Amount	Rs. 800	Rs. 1,500	Rs. 2,200

LISP shall be eligible for payout basis actual utilization (Diesel Cost per candidate \* Number of registered candidates scheduled) or Minimum Amount whichever is higher

On the day of the examination in case diesel generator fails and TCS is required to arrange for alternate diesel generator, LISP shall pay the actual expense incurred as follows:

- In case LISP has a valid invoice for which payment is due from TCS, LISP can raise a credit note against the valid invoice.
- In case LISP does not have a valid invoice, LISP shall raise a credit note along with cheque for the actual expense.

4. Miscellaneous:

- TCS will raise a Work order whenever TCS wants to use LISP hardware and LISP shall raise an undisputed invoice after the Usage Period within 60 days from the date of examination. LISP shall attach a copy of the Work Order and supporting documents along with the invoice. TCS shall verify the invoice and pay a validated invoice within thirty (30) days from the date of receipt of original hard copy of the invoice on best effort basis.
- In case TCS does not receive undisputed invoice within 60 days from the date of examination, TCS shall not be liable to make payment to the LISP.

SCHEDULE - 3  
SERVICE LEVEL CREDITS

- LISP shall provide confirmation of center within 24 hours of receiving Work Order from TCS personnel
- LISP shall ensure that the details of personnel providing invigilation/supervision service are shared with TCS personnel 10 days prior to the period specified in Work Order
- LISP shall ensure that the invoices are dispatched immediately after completion of the project as stated in Work Order.

TCS Proprietary and Confidential

Version 01

Principal  
Gautam College  
Hamirpur (H.P.)

Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001





Agreement

This Agreement made and effective as on this 1 Oct day of September, 2022, by and between NSEIT Ltd having its Registered Office at Trade Globe, Ground Floor, Sir M.V. Road, Andheri-Kurla Road, Andheri (East), Mumbai - 400 059 and Gautam College Hamirpur having its registered administrative office at Ward No 10 Near Bus stand Hamirpur (H.P.) and represented by Dr. Rajneesh Gautam

The objective of this Agreement is to provide the requisite infrastructure and manpower resources exclusively to NSEIT to conduct Computer Based Exams (CBEs) as per terms discussed and mutually agreed, which is detailed hereunder:

**A Amenities & Services**

**Details & Agreed Terms**

**A Test Centre Details**

1. Name of the Institution / Organization
2. Postal Address with Pin code, landline Number of Venue with STD Code and Landmark
3. Name & Constitution of Institution - (Society / Trust / Partnership Firm / Pvt. Ltd. Firm)
4. Online Exam Conduct Experience of Test Venue
5. Name of nearest Bus Stop to the Test Centre
6. Distance of nearest Bus Stop from Centre  
Name of nearest Railway Station to the Test Centre
6. Distance of nearest Railway Station from test Centre
7. Authorized Signatory (Name, Designation, email ID & Contact No.)

Address: Ward No.10, Near Bus Stand Hamirpur  
 Pin Code: 177001  
 Land Mark:  
 Tel Nos.  
 Venue SPOC Mobile Number: 9415210420  
 Landline Number:  
Gautam College Hamirpur  
 a. No. of Years/ Months of Experience - 10  
 b. Max. number of Seats used for any online Exams in last 1 year 100  
 c. Which Exams? JEE  
 Name: Hamirpur  
 Distance: 200 m Kms.  
 Name: UNA  
 Distance: 66.9 Kms.  
Dr. Rajneesh Gautam

**B Test Venue Details**

1. Total no. of seats available in the Campus/at the premises
2. Total no. of seats offered for booking
3. The days on which the venue shall be exclusively provided to NSEIT
4. Min. advance notice period required by Venue to block facilities for specific exam date(s). with the first right of refusal to release the blocked dates

100 Seats  
100 Seats  
 SUNDAYS  YES  NO  
 SATURDAYS  YES  NO  
 MON - FRI  YES  NO  
 7 Days  14 Days  
 21 Days  30 days

Director  
 Gautam College Hamirpur  
 Hamirpur (H.P.) - 177001

*[Handwritten Signature]*



Details & Agreed Terms

Sr. No Amenities & Services

F Statutory Compliance

- 1. Adequate provisioning of Fire Safety Equipments & Fire Extinguishers available at vulnerable locations inside the premises / campus  YES  NO
- 2. First Aid Box available in the vicinity of the test rooms / computer labs for emergency use  YES  NO

G Manpower to be provided

Venue Head / SPOC  
(1 per Venue)

- 1. (A senior academic / administrative staff member shall nominated from the Institution, who shall be available at the venue on Mock / Actual Exam days for escalation and support required for the smooth conduct of exams)

Name : Dr Rajneesh Gauram  
 Designation: Secretary Cum Principal  
 Email : ggehmr@gmail.com  
 Contact No : 948010420

Invigilators / Test Administrator  
(Min @ 1: 25 Seats Booked or One Invigilator per test room if the test room size is less than 25 PCs or As stated in the work order)

- 2. (The nominated invigilators need to carry minimum 4 years experience in teaching in the rank of Asst Lecturer / Lecturer)

YES  NO

IT System / Network Administrators  
(Min @ 1: 50 Seats Booked or As stated in the work order)

- 3. (The nominated system / network administrators need to carry minimum 3 years experience with good understanding of the venue IT Infrastructure & Network environment and capable to trouble shoot Desktop & Network related Issues)

YES  NO

Security Guards

(Min @ 1: 100 Seats Booked or As stated in the work order)

YES  NO

*[Handwritten Signature]* 14/5/22

Sr. No	Amenities & Services	Details & Agreed Terms
5.	Electricians / Generator Operators (Min @ 1: 300 Seats Booked or As stated in the work order)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
6.	House Keeping / Cleaning Attendants (Min @ 1: 100 Seats Booked or As stated in the work order)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
H	Commercial Terms & Conditions	

*[Handwritten Signature]*  
14/X/22

Director  
Gautam Group of Institutions  
Hamirpur (H.P.)-177001

Sr. No Amenities & Services Details & Agreed Terms

Hiring charges for test candidates scheduled

Rs. 190/ Machine/Day (Where the usage 3 or more sessions / day)  
Rs. 160/ Machine/Day (Where the usage 2 sessions / day)  
Rs. 110/ Machine/Day (Where the usage 1 sessions for day)

The below mentioned are assumed to be provided as a part of the Infrastructure without any additional costs:

(Generator Usage Charges- Rs. 1500/- per day @ flat rate, in case of usage or no usage)

- 1.a)
- a) Desktop Terminals with min. 1 GB RAM
  - b) Partitions between 2 adjacent monitor Screens
  - c) LAN Facility
  - d) Internet Connection as specified
  - e) Webcam for registration
  - f) Laser / Inkjet Printer & required stationeries for printing.
  - g) UPS & DG back-up (does not include fuel)
  - h) Buffer systems in the LAN being used as per requirement of project to be on LIVE standby in case of any contingency
  - i) Spare Network Equipments (Network Switch) for contingency

NOTE: Any non compliance against placed purchase order will lead to appropriate deduction in the invoice raised.

Other Services & Charges

- 1.b)
- (1) Diesel Charges per hour of usage (Only on consumption during power failure & paid only for session based hiring)

(2) Surveillance Camera Facility covering the entire testing terminals with local DVR facility with a copy of the recordings in a CD/DVD .

(3) Printing & Stationeries Paid based on usage at A4 Printout Copy (B/W)

Other Charges	Rate
Printing charges / per page	1
CCTV recording @ pc / per day (multiple sessions)	10

2. Exam Centre to provide all necessary IT Manpower (@1:50 Seat) required for the conduct of the readiness audits, trials runs, etc. without any additional charges.

Sr. No

Amenities & Services

Details & Agreed Terms

There shall be NO charges payable for Venue Infra Audit / Venue Compliance & Feasibility tests done at the venue before actual exams scheduled for Certifying the venue readiness.

3. Venue Agrees to Ensure

- Venue Responsibility such as :
1. IT Readiness prior to Trial Run/Mock Day
  2. No Internet access on Exam PCs
  3. Antivirus must be updated
  4. Unauthorized programme or tools such as remote login software/tools should not be available/installed on exam PCs
  5. Availability of Venue / Support for readiness trials/mock
  6. Availability of IT or Venue SPOC to support
  7. Support during Exigency Scenarios
  8. Ensuring accountability for secure and smooth exam conduct

4. Invoice raised shall be based on number of sessions of the exam scheduled (minimum of 1 session & max of 2 sessions ) or Full-Day Hiring Charges in the event of the usage exceeding 2 sessions / Day

YES  NO

5. Invoice for the hiring charges shall be raised to NSEIT, Mumbai within 7 days from the date of completion of the test at the venue as per the no. of systems booked, number of Test Days & number of Mock Test Days

YES  NO

6. Invoice raised shall be processed and payment credited through NEFT to the respective accounts within 30 days from the receipt of invoice.

YES  NO

Vendor Registration – Complete details to be provided in Annexure 1

1. Name and address of the Vendor

Service Tax Details

2. a. Service Tax Number
- b. Service Tax Category

a.  
b.

3. Permanent Account Number with copy of PAN CARD and Cancelled Cheque

4. TAN No

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14/12/22  
Release Date: 15/06/2016

Director  
Gaitan  
Hampden (H.P.)-177001

Sr. No	Amenities & Services	Details & Agreed Terms
6.	To assign a VENUE SPOC to liaison for venue booking and coordination for service provisioning and facilitation of smooth conduct of exams	Venue to assign a SPOC to liaison for venue booking, providing all the necessary support and resources, required at the venue for readiness, prior to exam and for delivery on day of exam as per pre-requisite checklist/ processes/ requirement shared for different exams. Confidentiality of information shared by NSEIT to be maintained.
7.	Venue readiness confirmation coordination	<ol style="list-style-type: none"> <li>1. To provide venue readiness certificate, 2 days prior to exam with DG/UPS/Network in working condition as well readiness of required number of PCs with buffer having IE Setting, Link, Software tool installation, etc.</li> <li>2. Venue SPOC to align IT Support Manpower as per PO necessary readiness of virus free PCs as per pre-requisite checklist including IE Setting, SBT, AV, Network, LAN, UPS, DG in working condition and to provide venue readiness certificate 2 days prior to exam.</li> <li>3. Venue SPOC to provide all manpower as per PO and mutual interactions for smooth exam day</li> </ol>
8.	Will arrange the documents formats to be printed and display at venue	Posters, Placards directors to be printed and display outside the institution, lab mentioning about the exam in-line with NSEIT requirements
9.	Pre-Exam Day Trial Runs and checks	Venue to ensure availability of nominated manpower ((as per PO) for training and participation in confirming that their allotted lab readiness purpose
10	Exam Day Services	<ol style="list-style-type: none"> <li>1. Venue manpower to report as per reporting time</li> <li>2. To deploy venue personnel to verify identity of candidate as per training and taking attendance</li> <li>3. Invigilators to login and start exams on PC as per training and ensure supervision assistance for fair and smooth exam delivery. Ensure adherence of the exam guidelines as per training provided</li> <li>4. IT support to address all PC /LAN/Printers /Ups/ DG related troubleshooting and exam related support</li> </ol>

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Release Date: 15/06/2016

*[Handwritten Signature]*

*[Handwritten Signature]* 14/X/22



Sr. No

Amenities & Services

Details & Agreed Terms

Bank Accounts Details :

- a. Bank Account Number
- b. NEFT/RTGS Code
- c. Name of the Bank
- d. Address of the Bank

a. 2185819387  
 b. Central Bank of India  
 c. Hamirpur  
 d.

NSEIT Responsibilities

1. To check/inquire with Venue SPOC for availability of venue on desired date(s) for planning purposes with end customer
2. To issue the Purchase Order to book the test venue before the scheduled date of the exam, planned at the test venue
3. To mention in the PO, the manpower resources required for Exam Invigilation, IT Administration and other support services
4. To mention in the PO, the number of buffer PCs required in the LAN as stand-by for use during contingency of PCs breakdown.
5. To process and disburse the payment within 30 days from the receipt of invoice at HO

Test Venue Service Provider Responsibilities

Test Venue SPOC to confirm NSEIT about Test Venue Infrastructure Facilities and date availability within 48 hours of receiving inquiry.

Test Venue SPOC to return the signed and sealed copy of the Purchase Order acceptance within 48 hrs. from the receipt to confirm acceptance failing which it will be deemed to be accepted. Once the PO is accepted, the Service Provider will ensure, the test rooms are allotted to NSEIT exclusively for its requirement.

Once the PO is raised, venue will not cancel or withdraw under any circumstances.

Venue provider will ensure the manpower mentioned in the PO are made available for the online test related training on the previous day of the exam as per training time table and they report min. 2 Hrs. before the scheduled first session time on the day of the exam.

Will provide the required buffer PCs as stated in the PO, which will be tested during the venue readiness test on the previous day of the exam.

Venue to submit the invoice for the hired venue and services within 7-days from the date of the exam successfully conducted at the Test venue. The invoice hardcopy dully filled supporting sealed and signed needs to be submitted to the NSEIT authorized representative assigned to the test venue.

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 Release Date: 15/08/2016  
 14/X/22

Sr.  
No  
J

Amenities & Services

Details & Agreed Terms

DOCUMENTS FOR LEGAL DUE DILIGENCE

Please tick

- Incorporation / Registration for the Society / Trust / Firm / Institution
- Photocopy of the establishment registration certificate
- Valid authorization letter for the signatory authorized to sign the agreement
- Copy of Pan Card
- Copy of a canceled cheque for NEFT transaction

ADDITIONAL INFORMATION/ DEVIATION, IF ANY

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Terms of Agreement

1. IPdH Online examinations shall be conducted at the Service Provider Centre as per the terms and conditions of this Agreement on a mutually agreed date and time of the month
2. Service Provider to confirm IPdH of test infrastructure facilities / date availability within 48 hours of receiving inquiry
3. Service Provider to revert to IPdH with signed and sealed copy of the form back under acceptance within 48 hrs. of receipt of PO, failing which it will be deemed to be accepted
4. Service Provider will allot and make available the test venue / lab, to IPdH for exclusive use by IPdH on the scheduled exam dates, as well during next 30 days) once PO is taken, venue cannot cancel the booking due to subsequent intimation sent to candidates for exam venue
5. Prior to signing the agreement or confirming venue for any exam requirement, test venue infrastructure provided (PCs, Network switches, Rack, Firewall, Modems, Internet bandwidth & speed, UPS, TV, A/C, etc., etc.) will be audited by authorized technical engineers from IPdH on mutually agreed date, for which venue facility to be provided free of cost.
6. IPdH shall provide the initial audit findings report to the test venue along with the details on gaps and deviations observed in the infrastructure not meeting the requirements.
7. That the Venue provider post shall undertake to resolve the discrepancies notified in the audit in less than 2 working days from the date of receipt of report.
8. That all the changes done and resolutions provided to meet the technical requirements of the infrastructure during after the initial audit shall remain unaltered at the test venue or maintained under different user profile settings for IPdH exam purposes.
9. In case of qualified and audited venue being booked by taking the PC for any particular exam, the PC will be revoked, if there are open audit findings/discrepancies found about venue infrastructure necessary for smooth conduct of online exam and not resolved within mutually discussed time/2 working days.
10. That the personnel assigned by the test venue SPOC for the pre-exam day activities, & exam day activities need to report as per the things discussed in advance by NSEH SPOC and/or mentioned in the schedule / during training for the exams.
11. That the test venue SPOC shall ensure that the PCs allotted for the exam has the NSEH SBI (Secured Browser Tool) installed and the IE browser settings done as per the specifications shared prior to the pre-exam day to enable conduct of venue readiness test on the pre-exam day. Internet access must be disabled on all exam PCs, except our Server. Antivirus must be installed and updated on all exam PCs. Unauthorized program such as remote login tools / software must NOT be available and NOT installed on any exam PCs. Test Venue Team will be accountable for exam conduct at the test venue in secure and fair manner, use in secure and fair manner.
12. That the personnel assigned by the test venue will undergo a class-room and on-job training on the pre-exam day for the various roles they handle, the schedule for the training shall be shared to the test venue SPOC.

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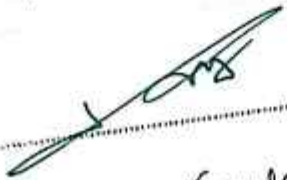
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 Director, Institute of Pharmacy  
 Mysore (H.P.)-577001

Release Date: 15/06/2016

13. That the test venue SPOC shall ensure the personnel assigned shall report on time for the training as per the training schedule. The authorized venue head shall also assign one back-up personnel for every two person for the training to manage contingency.
14. That the test venue SPOC shall ensure the entire test venue Infrastructure provided for the exams are in proper working condition. NSEIT shall not be liable to pay any charges to venue Infrastructure service provider in the event of exam being cancelled due to Infrastructure failure or issues related to shortage or quality of manpower provided by the venue.
15. Complete capacity at a venue is to be detailed in annexure with floor, lab number/ name, capacity, full address with landmark etc
16. For every PO, venue service provider will detail which lab is allotted to NSEIT for that exam with reference number mentioned above, details of security guard who will open the gate (including address), SPOC name/ number (including address), Invigilator names/ their numbers, Numbers of all escalation points, etc.
17. Venue service provider will give LAB infrastructure in NSEIT possession one day prior to exam day for readiness checks/trial runs
18. Venue provider will intimate any changes in infrastructure such as venue shifting, non availability for any particular period, changes in IT infrastructure such as OS changes, Internet connection changes etc atleast 60 days in advance
19. Venue provider will intimate any other exam or event happening at the venue at the time of accepting the PO (or subsequently as the case may be) and will ensure that there will not be any disturbance (especially marriages or other noisy functions) / changes due to those events/ exams to already allotted labs, people, entrance gates & other facility
20. Venue will provide buffer PC capacity (10%, 15% or 20% as the case may be and discussed mutually during PP) as a standard practice which should be connected on LAN over and above PO capacity. These are to be used in case of issues, emergencies, etc. If used for additional candidates payment will be made for the same. The buffer capacity is not be construed as back up PCs kept in a storage. These buffer capacity PCs will be also be enabled with NSEIT specific software installed and connected over LAN. Spare LAN Equipments (Network Switches) to be provisioned and kept ready as contingency by Service Provider to prevent any cancellation of exams due to LAN connection, Network Failure, etc.
21. Venue provider will provide staff capable of handling any IT failures, power failures etc. causing exam reschedule. If venue provider fails to resolve the IT Infra structure/LAN problem re-exam will be conducted free of cost or payment will not be made for impacted session of exams
22. Venue provider will ensure that all the PCs (including buffer) offered, are on single LAN, same floor (as far as possible) & same building. Under no condition the infrastructure in the basement will be accepted except for PWD/special candidate arrangements
23. Venue provider to provide additional equipment such as CCTV cameras, Biometric equipment, Bar code readers, Jammers etc. at additional cost mutually discussed on per candidate basis
24. If any other party is using venue Infrastructure using any equipments such as mobile jammers it will be intimated to us in advance. In addition, they will ensure that it will not affect communication for NSEIT

- 25. If multiple parties are using premises, venue provider will ensure that the same staff will not be used to service them. There will be dedicated staff provided to individual agencies.
- 26. Venue provider will also make VAIH available (as per requirement) by using manageable switch on fire if agreed.
- 27. The venue provider will ensure that their assigned staff will be available at the venue at least two hours before the start of first session exam.
- 28. The venue provider will take care of staff welfare such as their commute, breakfast, lunch, tea etc. on their own. Also it may be done by IP411 and deducted from venue billing.
- 29. The venue provider will provide to IP411 name, and qualification details of the fire fighters (who will be manning the site) for vetting purposes along with confirmation of (a)

Please sign this agreement as an acceptance of above mentioned broad terms, which shall be valid for a period of 16 months from the date of signing.

Authorized Signatory (Infrastructure Provider)	Signature	Infrastructure Services	Signed and Agreed by:
			For NSEIT Ltd.
Name:	Dr. Rajneesh Kumar		Signature: .....
Designation:	Secretary cum Principal		Name: .....
Date:	12-10-2022	Place: Haripur	Designation: .....
			Date: ..... Place: .....



  
14/11/22  
Release Date: 15/06/2016



Shiva Institute of Pharmacy

## MEMORANDUM OF UNDERSTANDING

Gautam College of Pharmacy, Hamirpur (H.P.)

&

Shiva Institute of Pharmacy, Bilaspur (H.P.)

This MEMORANDUM OF UNDERSTANDING entered into on this 07<sup>th</sup> day of July 2024

BETWEEN

Gautam College of Pharmacy, Hamirpur, through its Director cum Principal Prof. (Dr.) Sanjay Kumar for Gautam College of Pharmacy, Hamirpur, having expertise in the areas of scientific, Pharmaceutical education and research, affiliated college of HPTU as the First Party.

&

The Shiva Institute of Pharmacy, Bilaspur (H.P) through the Principal Prof. (Dr.) Vinod Kumar Gautam having expertise in the areas of scientific, Pharmaceutical education and research, as the Second Party.

WHEREAS, Gautam College of Pharmacy, Hamirpur and Shiva Institute of Pharmacy, Bilaspur (H.P) have many areas of common interest in Pharmacy and Sciences, considerable advantage may be gained from their pursuit on a collaborative basis in the fields of academics, education and research.

NOW THEREFORE, Gautam College of Pharmacy, Hamirpur and Shiva Institute of Pharmacy, Bilaspur (H.P) have decided to enter into this Memorandum of Understanding (hereinafter referred to as MoU), which defines the framework for the cooperation of the two institutions set out in the following sections.

### ARTICLE I: OBJECT

Both Institutes agree to develop the following collaborative activities in the academic areas of mutual interest, on a basis of equality and reciprocity.

The two institutions shall seek to promote:

a. Faculty/Scientist/Staff Exchanges

(i) The exchange of faculty to the mutual benefit of both institutions.

(ii) Collaboration in teaching, research and development, and consultancy studies in the field of mutual interest.

(iii) The exchange of academic materials and publications.

(iv) Conducting lectures.

(v) Undertaking joint research.

(vi) Attachment of staff for purposes of curriculum development and review, attendance of courses, upgrading of teaching and research skills.

(vii) Participating in seminars, symposiums, and other types of academic discussions.

(viii) Co-supervising post graduate / Doctoral Students.

(ix) Conducting study tours and joint consultancy work.

A specific plan will be worked out for each activity; setting forth detailed arrangements for collaboration will be agreed. Terms and conditions for each visit or an assignment or such exchange, including those concerning salary, travel funding and housing will be worked out between the institutes. A separate agreement will be entered into giving such details including term of exchange of any intellectual property.

#### ARTICLE II: COORDINATION

Each institution shall appoint one member of its teaching/research faculty to coordinate the programme on its behalf. Further, a coordination committee consisting of a programme coordinator from the side of **Gautam College of Pharmacy, Hamirpur**, and a programme coordinator from the side of **Shiva Institute of Pharmacy, Bilaspur** will periodically review and identify ways to strengthen cooperation between the two institutions.

#### ARTICLE III: CONFIDENTIAL INFORMATION

**Gautam College of Pharmacy, Hamirpur** and **Shiva Institute of Pharmacy, Bilaspur (H.P.)** both does not absolve any confidential information during the research activity.

#### ARTICLE IV: INTELLECTUAL PROPERTY RIGHTS

Ownership of any intellectual property (including but not limited to confidential information, know-how, patents, copyrights, design rights, rights relating to computer software, and any other industrial or intellectual property rights) developed jointly during the course of this MOU shall be vested in both institutes to this Memorandum.

Both institutes shall have the joint right to determine the commercial exploitation and disposition of such intellectual property, and both institutes shall make joint applications for the registration of the same. Before any registration or commercialization of any intellectual property takes place, the institutes agree to reach a separate agreement covering issues such as exploitation rights and revenue sharing.

Gautam College of Pharmacy  
Hamirpur, J.K. 177001

Any publication regarding such intellectual property shall only be possible with the prior written consent of both institutes, such consent not to be unreasonably withheld.

Gautam College of Pharmacy, Hamirpur or Shiva Institute of Pharmacy, Bilaspur (H.P) shall be free to use perpetually the results arising out of the collaborating activities for its own internal teaching, research, educational, clinical and publication purposes without the payment of royalties or other fees to the other party.

#### ARTICLE V: VALIDITY

The Memorandum shall remain in force for a period of FIVE years commencing from effective date. Institutions may extend the term by written agreement signed by both after review.

#### ARTICLE VI: TERMINATION

Either institution may terminate the MoU by giving written notice of SIX MONTHS in advance to the other institution. Once terminated, neither Gautam College of Pharmacy, Hamirpur nor Shiva Institute of Pharmacy, Bilaspur (H.P) will be responsible for any losses, financial or otherwise, which the other institutions may suffer.

However, Gautam College of Pharmacy, Hamirpur and Shiva Institute of Pharmacy, Bilaspur (H.P) will ensure that the provisions of this Memorandum shall continue to apply to all activities in progress until their completion.

#### ARTICLE VII: AMENDMENTS/MODIFICATIONS

This MoU may be amended or modified by a written agreement signed by the representatives of both institutes.

#### ARTICLE VIII: ADHERENCE TO LAWS

Participating faculties, staff and students involved in any activities under this Memorandum must adhere to the law of the host countries and rules and regulations of the institutions.

#### ARTICLE IX: LEGAL EFFECT

Nothing in this MoU shall be construed as creating any legal relationship between the institutes. This Memorandum is a statement of intent to foster genuine and mutually beneficial collaboration.

#### ARTICLE X: DISPUTE RESOLUTION

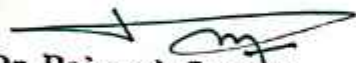
In case, there is a dispute relating to any aspect of academic cooperation, Director cum Principal, Gautam College of Pharmacy, Hamirpur and Shiva Institute of Pharmacy, Bilaspur (H.P) will jointly resolve the dispute in a spirit of independence, mutual respect, and shared responsibility.

Director  
Gautam College of Pharmacy  
Hamirpur (H.P) - 177001



Gautam College of Pharmacy, Hamirpur and Shiva Institute of Pharmacy, Bilaspur (H.P) welcomes the establishment of this MoU for cooperation and jointly agrees to the provisions as set out above.

IN WITNESS WHERE OF, the parties here to have executed this indenture (MoU) the day the year First here in above written.



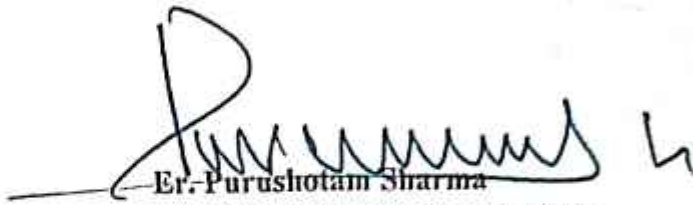
Dr. Rajneesh Gautam  
Secretary, Gautam Group of Colleges,  
Hamirpur (H.P)

Place: CHANDPUR  
Date: 07/06/24



Prof. (Dr.) Sanjay Kumar  
Director cum Principal, Gautam College of  
Pharmacy, Hamirpur (H.P)

Place: CHANDPUR  
Date: 07/06/2024



Er. Purushottam Sharma  
Managing Director, Shiva Institute  
of Pharmacy, Bilaspur (H.P)

Place: CHANDPUR  
Date: 07/06/24



Prof. (Dr.) Vinod Kumar Gauttam  
Principal, Shiva Institute of  
Pharmacy, Chandpur, Bilaspur (H.P)

Place: CHANDPUR  
Date: 07/06/24



Director cum Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

## Memorandum of Understanding (MoU)

Between

**Gautam College of Pharmacy**

and

**Ellora Technology Private Limited**

**Subject: Disposal of E-Waste**

This Memorandum of Understanding (MoU) is entered between **Gautam College of Pharmacy** (hereinafter referred to as "Gautam College") 'First party' and **Ellora Technology Private Limited** (hereinafter referred to as "Ellora Technology Pvt. Ltd.") 'Second Party' on 24/03/2023.

### 1. Purpose:

The purpose of this MoU is to establish a partnership between **Gautam College of Pharmacy** and **Ellora Technology Pvt. Ltd.** for the environmentally responsible disposal of electronic waste (E-waste) generated by **Gautam College of Pharmacy**.

### 2. Scope of Work:

**Ellora Technology Pvt. Ltd.** agrees to provide E-waste disposal services to **Gautam College of Pharmacy** in compliance with all applicable laws and regulations. This includes the collection, transportation, recycling, and disposal of E-waste generated by **Gautam College of Pharmacy**. The material will include as all forms of e waste or e scrap collected out of the discarded electronic equipment's of all kinds but not limited to IT equipment's like printer, printer cartridges, faxes, copiers, spares but also include desktops, servers, network personal equipment's, monitors, liquid crystal displays, servers, electronic storage media, all accessories and components

### 3. Responsibilities:

#### 3.1 Gautam College of Pharmacy:

Provide accurate information regarding the quantity and type of E-waste generated.

Ensure the segregation and proper storage of E-waste in designated areas.

Director  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

Cooperate with Ellora Technology Pvt. Ltd. in scheduling pickups and facilitating the disposal process.

**3.2 Ellora Technology Pvt. Ltd. :**

Provide safe and environmentally friendly disposal methods for E-waste.

Comply with all relevant laws and regulations related to E-waste management.

Issue necessary documentation certifying the proper disposal of E-waste.

**4. Duration:**

This MoU shall be effective from the date of signing and shall remain in force for a period of 5 Years. Either party may terminate this agreement by giving notice period written notice to the other party.

**5. Confidentiality:**

Both parties agree to maintain the confidentiality of any proprietary or sensitive information shared during the course of this partnership.

**Gautam College of Pharmacy**

Dr. Jagdish Singh

Signature

Date:



03/23

**Ellora Technology Pvt. Ltd.**

Sh. Raman Pal Sharma

Signature:

Ellora Technology Pvt. Ltd.

Date:

25/03/2023

Director

We acknowledge our agreement to the terms and conditions outlined in this Memorandum of Understanding.

Director/Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001



## MEMORANDUM OF UNDERSTANDING

Gautam College of Pharmacy, Hamirpur (H.P.)  
&  
Minerva College of Pharmacy, Indora, Kangra (H.P.)

This MEMORANDUM OF UNDERSTANDING entered into on this 30<sup>th</sup> day of July, 2024

BETWEEN

Gautam College of Pharmacy, Hamirpur, through its Director cum Principal Prof. (Dr.) Sanjay Kumar for Gautam College of Pharmacy, Hamirpur, having expertise in the areas of scientific, Pharmaceutical education and research, affiliated college of HPTU as the First Part.

&

The Minerva College of Pharmacy, Indora, Kangra (H.P.) through the Prof. (Dr.) Kapil Kumar Verma having expertise in the areas of scientific, Pharmaceutical education and research, as the Second Part.

WHEREAS, Gautam College of Pharmacy, Hamirpur and Minerva College of Pharmacy, Indora, Kangra (H.P.) have many areas of common interest in Pharmacy and Sciences, considerable advantage may be gained from their pursuit on a collaborative basis in the fields of academics, education and research.

NOW THEREFORE Gautam College of Pharmacy, Hamirpur and Minerva College of Pharmacy, Indora, Kangra (H.P.) have decided to enter into this Memorandum of Understanding (hereinafter referred to as MoU), which defines the framework for the cooperation of the two institutions set out in the following sections.

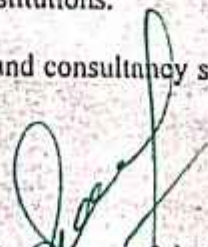
### ARTICLE □: OBJECT

Both Institutes agree to develop the following collaborative activities in the academic areas of mutual interest, on a basis of equality and reciprocity.

The two institutions shall seek to promote:

#### a. Faculty/Scientist/Staff Exchanges

- (i) The exchange of faculty to the mutual benefit of both institutions.
- (ii) Collaboration in teaching, research and development, and consultancy studies in the field of mutual interest.

  
Director cum Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)

Gautam College of Pharmacy, Hamirpur or Minerva College of Pharmacy, Indora, Kangra (H.P.) shall be free to use perpetually the results arising out of the collaborating activities for its own internal teaching, research, educational, clinical and publication purposes without the payment of royalties or other fees to the other party.

#### ARTICLE □: VALIDITY

The Memorandum shall remain in force for a period of FIVE years commencing from effective date. Institutions may extend the term by written agreement signed by both after review.

#### ARTICLE □: TERMINATION

Either institution may terminate the MoU by giving written notice of SIX MONTHS in advance to the other institution. Once terminated, neither Gautam College of Pharmacy, Hamirpur nor Minerva College of Pharmacy, Indora, Kangra (H.P.) will be responsible for any losses, financial or otherwise, which the other institutions may suffer.

However, Gautam College of Pharmacy, Hamirpur and Minerva College of Pharmacy, Indora, Kangra (H.P.) will ensure that the provisions of this Memorandum shall continue to apply to all activities in progress until their completion.

#### ARTICLE □: AMENDMENTS/MODIFICATIONS

This MoU may be amended or modified by a written agreement signed by the representatives of both institutes.

#### ARTICLE □: ADHERENCE TO LAWS

Participating faculties, staff and students involved in any activities under this Memorandum must adhere to the law of the host countries and rules and regulations of the institutions.


#### ARTICLE □: LEGAL EFFECT

Nothing in this Memorandum shall be construed as creating any legal relationship between the institutes. This Memorandum is a statement of intent to foster genuine and mutually beneficial collaboration.

#### ARTICLE □: DISPUTE RESOLUTION

In case, there is a dispute relating to any aspect of academic cooperation, Director cum Principal, Gautam College of Pharmacy, Hamirpur and Minerva College of Pharmacy, Indora, Kangra (H.P.) will jointly resolve the dispute in a spirit of independence, mutual respect, and shared responsibility.

Gautam College of Pharmacy, Hamirpur and Minerva College of Pharmacy, Indora, Kangra (H.P.) welcomes the establishment of this Memorandum for cooperation and jointly agrees to the provisions as set out above.

  
Director cum Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)

- (iii) The exchange of academic materials and publications.
- (iv) Conducting lectures.
- (v) Undertaking joint research.
- (vi) Attachment of staff for purposes of curriculum development and review, attendance of courses, upgrading of teaching and research skills.
- (vii) Participating in seminars, symposiums, and other types of academic discussions.
- (viii) Co-supervising post graduate / Doctoral Students.
- (ix) Conducting study tours and joint consultancy work.

A specific plan will be worked out for each activity; setting forth detailed arrangements for collaboration will be agreed. Terms and conditions for each visit or an assignment or such exchange, including those concerning salary, travel funding and housing will be worked out between the institutes. A separate agreement will be entered into giving such details including term of exchange of any intellectual property.

#### ARTICLE □: COORDINATION

Each institution shall appoint one member of its teaching/research faculty to coordinate the programme on its behalf. Further, a coordination committee consisting of a programme coordinator from the side of Gautam College of Pharmacy, Hamirpur, and a programme coordinator from the side of Minerva College of Pharmacy, Indora, Kangra (H.P.) will periodically review and identify ways to strengthen cooperation between the two institutions.

#### ARTICLE □: CONFIDENTIAL INFORMATION

Gautam College of Pharmacy, Hamirpur and Minerva College of Pharmacy, Indora, Kangra (H.P.) both does not absolve any confidential information during the research activity.

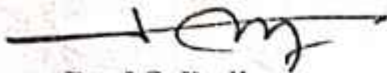
#### ARTICLE □: INTELLECTUAL PROPERTY RIGHTS

Ownership of any intellectual property (including but not limited to confidential information, know-how, patents, copyrights, design rights, rights relating to computer software, and any other industrial or intellectual property rights) developed jointly during the course of this MOU shall be vested in both institutes to this Memorandum.

Both institutes shall have the joint right to determine the commercial exploitation and disposition of such intellectual property, and both institutes shall make joint applications for the registration of the same. Before any registration or commercialization of any intellectual property takes place, the institutes agree to reach a separate agreement covering issues such as exploitation rights and revenue sharing.

Any publication regarding such intellectual property shall only be possible with the prior written consent of both institutes, such consent not to be unreasonably withheld.

IN WITNESS WHEREOF, the parties here to have executed this indenture (MOU) the day the year First here in above written.

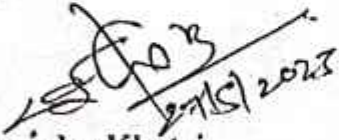


Dr. J.S. Badhan

Principal, Gautam Group of Colleges,  
Hamirpur (H.P)

Place:

Date:



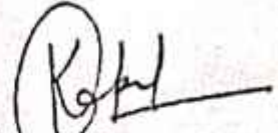
27/5/2023

Mr. Ravinder Khatri

Assistant Professor, Gautam College of  
Pharmacy, Hamirpur (H.P)

Place:

Date: 27/5/2023



Dr. Kapil Kumar Verma

Principal, Minerva College of Pharmacy,  
Indora, Kangra (H.P.)

Place: Indora

Date: 27/05/2023



Mr. Indar Kumar

Associate Professor, Minerva College of  
Pharmacy, Indora, Kangra (H.P.)

Place: Indora

Date: 27/05/2023



Director cum Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)



**MEMORANDUM OF UNDERSTANDING  
(MOU)**



**Gautam College of Pharmacy, Hamirpur (H.P.)  
&  
Himachal Institute of Pharmaceutical Education & Research, Nadaun,  
Hamirpur (H.P.)**

This MEMORANDUM OF UNDERSTANDING entered into on this 7<sup>th</sup> day of June, 2024

**BETWEEN**

**Gautam College of Pharmacy, Hamirpur**, through its Director cum Principal Prof. (Dr.) Sanjay Kumar for Gautam College of Pharmacy, Hamirpur, having expertise in the areas of scientific, Pharmaceutical education and research, affiliated college of HPTU as the **First Part**.

**&**

**The Himachal Institute of Pharmaceutical Education & Research, Nadaun, Hamirpur (H.P)** through the Director Prof. (Dr.) Parshuram Rai having expertise in the areas of scientific, Pharmaceutical education and research, as the **Second Part**.

WHEREAS, Gautam College of Pharmacy, Hamirpur and Himachal Institute of Pharmaceutical Education & Research, Nadaun, Hamirpur (H.P) have many areas of common interest in Pharmacy and Sciences, considerable advantage may be gained from their pursuit on a collaborative basis in the fields of academics, education and research.

NOW THEREFORE Gautam College of Pharmacy, Hamirpur and Himachal Institute of Pharmaceutical Education & Research, Nadaun, Hamirpur (H.P) have decided to enter into this Memorandum of Understanding (hereinafter referred to as MoU), which defines the framework for the cooperation of the two institutions set out in the following sections.

**ARTICLE I: OBJECT**

Both Institutes agree to develop the following collaborative activities in the academic areas of mutual interest, on a basis of equality and reciprocity.

The two institutions shall seek to promote:

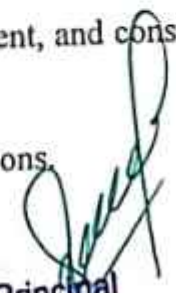
a. Faculty/Scientist/Staff Exchanges

(i) The exchange of faculty to the mutual benefit of both institutions.

(ii) Collaboration in teaching, research and development, and consultancy studies in the field of mutual interest.

(iii) The exchange of academic materials and publications.

(iv) Conducting lectures.

  
Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001



- (v) Undertaking joint research.
- (vi) Attachment of staff for purposes of curriculum development and review, attendance of courses, upgrading of teaching and research skills.
- (vii) Participating in seminars, symposiums, and other types of academic discussions.
- (viii) Co-supervising post graduate / Doctoral Students.
- (ix) Conducting study tours and joint consultancy work.

A specific plan will be worked out for each activity; setting forth detailed arrangements for collaboration will be agreed. Terms and conditions for each visit or an assignment or such exchange, including those concerning salary, travel funding and housing will be worked out between the institutes. A separate agreement will be entered into giving such details including term of exchange of any intellectual property.

#### ARTICLE II: COORDINATION

Each institution shall appoint one member of its teaching/research faculty to coordinate the programme on its behalf. Further, a coordination committee consisting of a programme coordinator from the side of Gautam College of Pharmacy, Hamirpur, and a programme coordinator from the side of Himachal Institute of Pharmaceutical Education & Research, Nadaun, Hamirpur (H.P) will periodically review and identify ways to strengthen cooperation between the two institutions.

#### ARTICLE III: CONFIDENTIAL INFORMATION

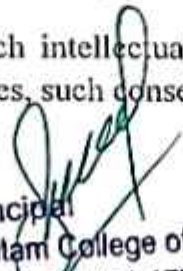
Gautam College of Pharmacy, Hamirpur and Himachal Institute of Pharmaceutical Education & Research, Nadaun, Hamirpur (H.P) both does not absolve any confidential information during the research activity.

#### ARTICLE IV: INTELLECTUAL PROPERTY RIGHTS

Ownership of any intellectual property (including but not limited to confidential information, know-how, patents, copyrights, design rights, rights relating to computer software, and any other industrial or intellectual property rights) developed jointly during the course of this MOU shall be vested in both institutes to this Memorandum.

Both institutes shall have the joint right to determine the commercial exploitation and disposition of such intellectual property, and both institutes shall make joint applications for the registration of the same. Before any registration or commercialization of any intellectual property takes place, the institutes agree to reach a separate agreement covering issues such as exploitation rights and revenue sharing.

Any publication regarding such intellectual property shall only be possible with the prior written consent of both institutes, such consent not to be unreasonably withheld.

  
Principal  
Gautam College of Pharmacy  
Hamirpur (H.P)-177001

Gautam College of Pharmacy, Hamirpur or Himachal Institute of Pharmaceutical Education & Research, Nadaun, Hamirpur (H.P) shall be free to use perpetually the results arising out of the collaborating activities for its own internal teaching, research, educational, clinical and publication purposes without the payment of royalties or other fees to the other party.

#### ARTICLE V: VALIDITY

The Memorandum shall remain in force for a period of **FIVE** years commencing from effective date. Institutions may extend the term by written agreement signed by both after review.

#### ARTICLE VI: TERMINATION

Either institution may terminate the MoU by giving written notice of **SIX MONTHS** in advance to the other institution. Once terminated, neither Gautam College of Pharmacy, Hamirpur nor Himachal Institute of Pharmaceutical Education & Research, Nadaun, Hamirpur (H.P) will be responsible for any losses, financial or otherwise, which the other institutions may suffer.

However, Gautam College of Pharmacy, Hamirpur and Himachal Institute of Pharmaceutical Education & Research, Nadaun, Hamirpur (H.P) will ensure that the provisions of this Memorandum shall continue to apply to all activities in progress until their completion.

#### ARTICLE VII: AMENDMENTS/MODIFICATIONS

This MoU may be amended or modified by a written agreement signed by the representatives of both institutes.

#### ARTICLE VIII: ADHERENCE TO LAWS

Participating faculties, staff and students involved in any activities under this Memorandum must adhere to the law of the host countries and rules and regulations of the institutions.

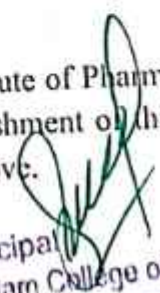
#### ARTICLE IX: LEGAL EFFECT

Nothing in this Memorandum shall be construed as creating any legal relationship between the institutes. This Memorandum is a statement of intent to foster genuine and mutually beneficial collaboration.

#### ARTICLE X: DISPUTE RESOLUTION

In case, there is a dispute relating to any aspect of academic cooperation, Director cum Principal, Gautam College of Pharmacy, Hamirpur and Himachal Institute of Pharmaceutical Education & Research, Nadaun, Hamirpur (H.P) will jointly resolve the dispute in a spirit of independence, mutual respect, and shared responsibility.

Gautam College of Pharmacy, Hamirpur and Himachal Institute of Pharmaceutical Education & Research, Nadaun, Hamirpur (H.P) welcomes the establishment of this Memorandum for cooperation and jointly agrees to the provisions as set out above.


  
Principal  
Gautam College of Pharmacy  
Hamirpur (H.P)-177001

IN WITNESS WHEREOF, the parties here to have executed this indenture (MOU) the day the year  
First here in above written.

  
Prof. (Dr.) Sanjay Kumar

Director cum Principal, Gautam College of  
Pharmacy, Hamirpur (H.P)

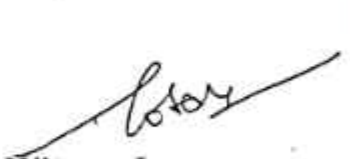
Place:  
Date:


  
Prof. (Dr.) Parshuram Rai


Principal, Himachal Institute of  
Pharmaceutical Education & Research,  
Nadaun, Hamirpur (H.P)

Place:  
Date:

  
Witness I

  
Witness I

  
Principal  
Gautam College of Pharmacy  
Hamirpur (H.P)-177001

 **SURAKSHA BIO SANITIZER**

VILL DHUGIARI P O GAGGAL TEH & DISTT KANGRA (H.P.)  
Head Office - OHBI MARKET MARI BAZAAR KANGRA  
Phone no -94591 69991--01892-29/035 92185 55554

Ref.No : - BMW/KNG/181 /22-26


DATE: - 21/06/2023

**BIO MEDICAL WASTE LIFTING CERTIFICATE**

THIS IS CERTIFIED THAT BIO MEDICAL WASTE (BMW) AS PER SEHEDULE-1 OF BIO MEDICAL WASTE (Management & Handling) RULES EXCEPT FOR LIQUID WASTE AS PER CAT.NO 09. OF THE GAUTAM GIRLS COLLEGE MANAGEMENT COMMITTEE HAMIRPUR COLLECTED BY US WITH EFFECT FROM 21.06.2023 FURTHER TREATMENT AT OUR FACILITY LOCATED AT VILLAGE DHUGIARI P O GAGGAL TEHSIL & DISTT KANGRA HIMACHAL PRADESH. THAT THE BIO MEDICAL WASTE GENERATED IS MANAGED EFFECTIVELY IN ACCORDANCE WITH THE HANDLING AND DISPOSAL METHODS IN BIO-MEDICAL WASTE (Management & Handling) RULES 2016.

*[Signature]*  
Director cum Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)

FOR

  
**SURAKSHA BIO SANITIZER**  
AUTHORIZED SIGNATORY

*[Signature]*

Director/Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

## RESPONSIBILITIES OF THE GENERATORS:

1. The GENERATOR shall segregate the waste at the point of generation as per law & as per HCU, HCU/2022/124 and in compliance with the standard protocol laid there under.
2. The HCU/2022/124 shall collect and hand over the segregated Bio-Medical Waste in the standard plastic bags as specified by Pollution Control Board norms.
3. At least smaller size bags of 10 kgs capacity shall be provided by the GENERATOR at its own cost. Suraksha Bio Sanitizer is committed to supply the same at least 10 kgs capacity.
4. The bags used for collecting such material, gloves and appropriate body parts are required to be segregated in the standard plastic bags.
5. All the bags shall be sealed tightly by the GENERATOR and SURAKSHA BIO SANITIZER will collect the sealed bags only at the common collection point in the premises of HCU/2022/124.
6. The collected waste shall be stored in the storage area in standard manner as per the standard protocol as specified in HCU/2022/124.
7. The HCU/2022/124 shall take all steps to ensure that the waste is stored in a safe manner to protect human health and environment.
8. The GENERATOR shall establish a common storage area for collection of waste in premises of HCU/2022/124 for the disposal.
9. The GENERATOR shall furnish annual report regarding the generation, collection, storage, transportation and disposal of Bio-Medical Waste as prescribed format to the HCU/2022/124 and State Pollution Control Board.
10. The GENERATOR shall maintain all the records in the office and report the details to HCU/2022/124 as prescribed under the rules.
11. The GENERATOR shall design a LOCAL OFFICE in HCU/2022/124 along with SURAKSHA BIO SANITIZER.
12. The collected waste material sent by GENERATOR may be stored and suggestion may be given for improvement in segregation of waste.
13. The GENERATOR shall obtain authorization from Himachal Pradesh Pollution Control Board.
14. The GENERATOR shall be solely responsible for the number of beds being decided to SURAKSHA BIO SANITIZER which must be same for which the authorization is proposed to be given from Govt. of Himachal Pradesh.
15. Board: The GENERATOR shall inform PCRB and SURAKSHA BIO SANITIZER within 7 days about any such change in number of beds.
16. The GENERATOR shall dispose of BIO-MEDICAL WASTE under cat 1 to 7 through Suraksha Bio Sanitizer only.

## Terms & Conditions

As included @ 12/1/22

1. Suraksha Bio Sanitizer shall charge Rs. 1680/- (Rs. ONE THOUSAND SIX HUNDRED EIGHTY ONLY) per month for the service of collection, transport, treatment & disposal of B/M's. Subject to the condition of weight and 10 Kg. per month OR Rs. 120/- (Rs. 120/-) per bed per day. GST 1% will be charged extra as per Govt. Notification 17 July 2022 (12% GST) subject to the issue no. of beds are \_\_\_\_\_ or present if at any stage Govt. Of HP or any other competent agency approves the charges it will come into force with immediate effect.
2. The no. of beds as well as quantity of waste shall be reviewed annually. The agreement may be amended suitably if required.
3. The HCU has to sign the agreement as per actual sanctioned bed.
4. Suraksha Bio Sanitizer would be at liberty to serve the notice to termination of agreement if the generator of service offered at any time to the GENERATOR if the GENERATOR fails to make the payment to SURAKSHA BIO SANITIZER within a time frame of three months from the date on which they become payable.
5. In case of the termination of the agreement by virtue of applicability of Para 6 above the security deposit advance paid by the GENERATOR shall stand forfeited without impacting the original claim of the 'Suraksha Bio Sanitizer'.
6. All payments shall be made by local bank cheque / Demand Draft payable at Mangla in favour of SURAKSHA BIO SANITIZER no payment by cash shall be valid without receipt.
7. All bounced cheque shall be charged @ Rs. 400/- extra in addition to the actual bank charges.
8. Any dispute arising out of this agreement shall be subject to the jurisdiction of Mangla court.
9. Suraksha Bio Sanitizer will charge minimum Rs. 120/- per bed per day from the HCU (waste generator) for the collection, Handling, Transportation & Disposal of the B/M up to 10 KG waste. Rs. 80 /kg will be charged extra waste & 5% will be increased per year automatically.
10. Suraksha Bio Sanitizer shall charge Rs. 1000/- (One Thousand Only) per month for the service of online bar coding system.
11. Suraksha Bio Sanitizer shall be charged extra 60 KG the service of 100 kg the Masses and then in your hospital.
12. Taxes such as GST or any other tax as and when applicable shall be to the waste generator's account.

## TERMINATION CLAUSE

Both the parties would be at liberty to terminate this contract by sending a notice of three months well in advance or a mutually compensating the other party by an amount of equal to the average of 3 (three months) billing.

Director cum Principal  
Gautam College  
Hamirpur (H.P.)

(AUTHORIZED SIGNATORY....GENERATOR) AUTHORIZED SIGNATORY - SURAKSHA BIO SANITIZER

President  
The Gautam Girls College  
Management Committee  
Hamirpur (H.P.)

Director/Principal  
Gautam College of Pharma  
Hamirpur (H.P.)-177001

Registration no

# SURAKSHA BIO SANITIZER

HPSECC (Haryana Pollution Control Board) Reg. No. 123456789  
Health Care Waste Management and Handling Regulations, 2016  
Pharmaceutical Waste Management and Handling Regulations, 2016  
www.hpsecc.org

## AGREEMENT

Date: 15/06/2023

This agreement is entered into this 21<sup>st</sup> day of JUNE the year 2023

### BETWEEN

SURAKSHA BIO SANITIZER (A STATE LICENSED ORGANIZATION UNDER THE ENVIRONMENTAL PROTECTION ACT, 1986)

Whose representative is MIR PAWAN THAKUR (MANAGER) S/O SHRI SOHAN LAL

### AND

Name of Health Care Facility: THE GAUTAM GIRLS COLLEGE MANAGEMENT COMMITTEE HAMIRPUR

Which is here referred to as GENERATOR

Its Address: WARD NO 10 NEAR BUS STAND HAMIRPUR

Authorizer Representative of GENERATOR: SH JAGDISH GAUTAM Designation: INCHARGE

Contact No: 9419039993 & Email: gautamjagdish@gmail.com

NOW THIS INDENTURE WITNESSETH and it is hereby covenant

### Validity of the Agreement:-

This agreement shall remain in force for a period of THREE Year with 21<sup>st</sup> day of JUNE of the year 2023 to 21<sup>st</sup> day of MARCH of the year 2026 (Both days inclusive) and shall be further renewed by mutual consent of both the parties.

### RESPONSIBILITIES OF SURAKSHA BIO SANITIZER:-

Suraksha Bio Sanitizer shall meet all the rules and regulation stipulated by HPSECC AND generator shall not be liable for any improper handling and management after collection of Bio Medical Waste from the Health Care Facility.

1. Suraksha Bio Sanitizer is liable for any violation of the Environment (Protection) Act, 1986 and the relevant rules after collection of Bio Medical waste from the GENERATOR and as per the agreement terms and conditions.
2. In case Suraksha Bio Sanitizer vehicle fail to collect the Bio Medical waste within the designated time (calendar day) due to any reason, the Generator shall inform the Suraksha Bio Sanitizer office at Dhurgu, who will ensure to strictly collect the Bio Medical Waste as per norms. Suraksha Bio Sanitizer shall be solely responsible for the for the consequences, if any in this regard. Suraksha Bio Sanitizer office shall maintain a register for such complaints and a complaint number to the GENERATOR. Suraksha Bio Sanitizer shall bear all fines and penalties imposed by HPSECC if any for delay or negligence in Services.
3. Suraksha Bio Sanitizer shall collect the segregated Bio Medical Waste from the identified common waste collection site on the premises of GENERATOR.
4. Suraksha Bio Sanitizer shall transport the segregated waste in closed container vehicle to its treatment plant. If the GENERATOR desires the initial training about segregation of Bio Medical Waste in color coded plastic bags and method of collection of Bio Medical Waste, shall be provided by SURAKSHA BIO SANITIZER at extra charge.
5. SURAKSHA BIO SANITIZER shall schedule the timings for collecting the waste in consultation with the Generator and also provide assistance to finalize the pickup location to the GENERATOR.
6. SURAKSHA BIO SANITIZER shall not be liable for any kind of the violation made by generator for its staff under the environmental (Protection) Act 1986 or any similar regulation, norms set up by PCB Government Bodies.
7. SURAKSHA BIO SANITIZER shall be responsible for appropriate treatment and shredding of disinfectant waste at the centralized common Bio Medical Waste treatment facility as per Environmental Protection (Medical Waste (MHW) rules 1996 & amendments made there under.
8. SURAKSHA BIO SANITIZER shall also undertake all the necessary measures to ensure safety to the environment as per rules.

Director,  
Gautam College of Pharmacy  
Hamirpur (H.P.) - 177001

For: [Signature]  
The Gautam Girls College  
Management Committee  
Hamirpur (H.P.)



# Memorandum of Understanding

between



**Maharaja Agrasen University**  
**Baddi, Himachal Pradesh, India**  
and  
**The Gautam College of Pharmacy**  
**Hamirpur, Himachal Pradesh**



This Memorandum of Understanding is made on this 10<sup>th</sup> day of August 2024 between Maharaja Agrasen University having their campus at Atal Shiksha Kunj, Nanakpur, Pinjore Nalagarh National Highway, near Barotiwala, Tehsil Baddi, Dist. Solan, Himachal Pradesh - 174103, represented by its Vice Chancellor - Dr. R. K. Gupta, as the First Party (hereinafter referred to as "University" or "MAU" or the "First Party")

And

The Gautam College of Pharmacy, Hamirpur, Himachal Pradesh 177001, represented by its Director, Prof.(Dr.) Sanjay Kumar (hereinafter referred to as "College" or the "Second Party").

Maharaja Agrasen University (MAU), Solan is a Private University located in District Solan, Himachal Pradesh and was established in the year 2013. The University is approved by the All India Council for Technical Education (AICTE), Pharmacy Council of India (PCI), Bar Council of India (BCI) and is recognized by the University Grants Commission of India (UGC). The University is envisioned to be an educational institution of repute for providing excellent academic, research and extra-curricular opportunities and thereby be the first choice of the students, academicians and research scholars. MAU offers various Diploma, Undergraduate, Postgraduate and Doctorate level courses in a wide variety of fields like Basic & Applied Sciences, Law, Management, Pharmacy, and Technology.

Gautam College of Pharmacy, Hamirpur, Himachal Pradesh, is associated with Gautam Group of Colleges, Gautam Group of Colleges which was established in June 1999. It comprises five colleges: Gautam College Hamirpur, Gautam College of Nursing, Gautam Institute of Management & Technology, Gautam College of Pharmacy, and Gautam Veterinary Pharmacist Training Institute. The Gautam College of Pharmacy offers D. Pharmacy, B. Pharmacy, B. Pharmacy (Lateral Entry Scheme) and M. Pharmacy (Pharmaceutical Chemistry). The college was founded with the goal of providing high-quality education to the state's youth, constantly pushing for growth and development, and fostering harmonious personalities by combining traditionalism and modernity. The college's founder intended for the school to become a center of excellence in North India, providing young people with the tools they need to explore possibilities and live fulfilling, creative lives in a rapidly changing world. The college's objective is to embrace challenges and strive for excellence.

Director  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001



Director/Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

## 1. OBJECTIVES OF THE MOU

1.1 In the spirit of friendship and with mutual interest in cooperation, the areas of cooperation will include any programme offered by MAU as thought desirable and feasible on either side and that both the parties will contribute to the fostering and development of the cooperative relationship between the two institutions and to promote collaborative educational, research and cultural activities. Cooperation/collaboration shall be through such activities as:

- 1.1.1 Exchange of faculty and/or staff
- 1.1.2 Exchange of students
- 1.1.3 Joint teaching, research, or cultural activities;
- 1.1.4 Joint organization of seminars and academic meetings
- 1.1.5 Faculty/Staff professional development;
- 1.1.6 Exchange of academic materials and other related information
- 1.1.7 Special short-term academic programs.
- 1.1.8 Joint research publications.

## 2. DURATION AND EVALUATION OF MOU


- 2.1 This MOU will come into operation with effect from the date of signing and will remain in force and effect for a period of three years or until the Termination Date. Either party may request termination of this agreement, in writing, ninety days prior to the proposed termination date.
- 2.2 A joint evaluation of the MOU will be initiated by the designated representatives of the two Universities six months prior to the expiration date. Following the evaluation, the MOU may be renewed and extended for an additional five year period.
- 2.3 Amendments to this MOU may be requested, in writing, by either party and will be approved by the authorized signatories of the two Institutions.

## 3. AREA OF COLLABORATION

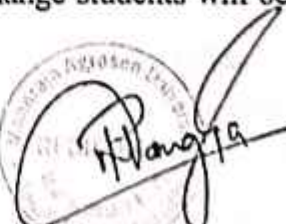
- 3.1 Areas of collaboration may be proposed by either party and may include the area of *Pharmacy* studies, but are not limited to stated activities. Any other related academic, cultural or research activity may be undertaken on mutual understanding between the two Institutions.
- 3.2 Any specific activity developed under this MOU shall be detailed in a subsequent agreement, to be signed by authorized signatories of both the parties, which will describe the scope of the proposed activity, intended outcomes, budget, and responsible departments or individuals.
- 3.3 All activities shall be subject to the availability of funds and with the approval of authorized representatives/signatories.

## 4. STUDENT EXCHANGE

- 4.1 The aim of the exchange program is to provide students an opportunity to have experience of diverse academic environment as well as to gain a better understanding of related concepts through education under this MOU.
- 4.2 The number of students exchanged under this MOU shall be not more than twenty students at a time from each Institution. The total number of mutual exchange students will be same from each Institution during the term of MOU.

  
Director  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

  
Director  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

  
Director  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001



- 4.3 The host Institution has the right to decide acceptance of exchange students, as per recommendations issued by the home Institution for exchange students based on their academic record.
- 4.4 Transportation, accommodation, food, clothing and other personal costs including the medical health insurance and medical care will be the personal responsibilities of the students themselves. The host Institution may reduce the application fees, entrance fees, and tuition fees of the exchange students. However, the host Institution may charge an amount for providing laboratory, library, internet facilities etc. The amount will be intimated at the time of making an offer.
- 4.5 The host Institution shall reserve or make available accommodation on campus for exchange students or assist them in locating suitable housing off campus if they so desire.
- 4.6 The exchange student is treated as either the research student or specially registered student.
- 4.7 The exchange students will be subject to the student rules of the host College/University, while on exchange. Exchange students will be offered the same facilities as students of the host College/University.
- 4.8 Exchange students will study subjects or conduct researches which are pertinent to their field of study and are offered by the host College/University.

## 5. FACULTY EXCHANGE

- 5.1 Both the parties will actively seek to promote mutual faculty exchange for a mutually agreed period.
- 5.2 Faculty exchange may assume various forms, such as individual short-time and long-term visits of faculties, joint research and development projects.
- 5.3 Both the parties will encourage their faculty for co-authoring research publications, joint research activities and joint projects subject to applicable copyright and / or other applicable laws as well as rules and regulations of the respective Universities.
- 5.4 The host Institution will make available facilities such as working space, internet, laboratories, libraries etc.
- 5.5 All expenses for travel, living and allied costs will be left to the discretion and the responsibility of the respective Institution.

## 6. COORDINATORS

- 6.1 Both the institutions will designate persons who will have responsibility for co-ordination and implementation of this agreement.

## 7. COMPLIANCE WITH LAW

- 7.1 Both the parties specifically intend to comply with all applicable Central, State, Local laws, Rules, and/or regulations or as may be amended from time to time. If any part of this MOU is rendered as to violate any Central, State, Local Laws, Rules and/or Regulations, the parties agree to negotiate in good faith revisions to any such provisions.

  
Director, Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

  
Director, Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001



7.2 If the either of the parties fail to agree to amend MOU within a reasonable time to bring the MOU in conformity with the applicable laws of the land, either party may terminate this Agreement with a thirty days prior written notice to the other party.

### 8. INTELLECTUAL PROPERTY RIGHTS

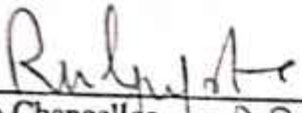
8.1 The intellectual property rights (IPR) that would arise as a result of joint research and collaborative activities under the agreement will be worked out on case to case basis and will be in consistent with IPR policies of the two Universities and applicable Laws.

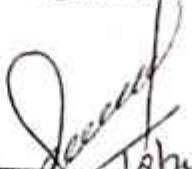
### 9. DISPUTE RESOLUTION

9.1 Both the parties shall attempt to resolve all disputes arising out of or relating to the MOU through direct negotiations within reasonable time.

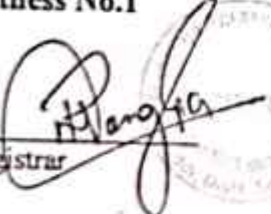
9.2 In case of any dispute between both the parties, the same shall be liable to be challenged within the jurisdiction of the Place/District of the university where the agreement, so has been signed and executed.

*In witness hereof, both Universities hereto have offered their signatures.*

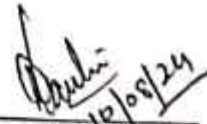
  
\_\_\_\_\_  
Vice-Chancellor  
Maharaja Agrasen University, Baddi  
Himachal Pradesh 177001

  
\_\_\_\_\_  
Director  
Gautam College of Pharmacy  
Hamirpur, Himachal Pradesh

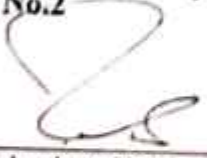
Witness No.1

  
\_\_\_\_\_  
Registrar

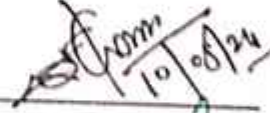

Witness No. 1

  
\_\_\_\_\_  
10/08/24

Witness No.2

  
\_\_\_\_\_  
Dean Academic Affairs  
Maharaja Agrasen University  
Atal Shiksha Kunj, Kalsopnanda  
Baddi, Solan (H.P.)

Witness No.2

  
\_\_\_\_\_  
10/08/24  
  
\_\_\_\_\_  
Director (in-charge)  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001



MEMORANDUM OF UNDERSTANDING BETWEEN  
GAUTAM COLLEGE OF PHARMACY  
AND  
SIGMA SOFTGEL & FORMULATION

Providing students for placements, Industry visits & Industrial training etc.

This Memorandum of Understanding (here in after called as the 'MOU') is made at Gautam college of pharmacy on 02 August, 2024.

Gautam College of pharmacy, here in after referred to as "GCOP", Ward no 10 Near bus stand District: Hamirpur, Himachal Pradesh - 177001 Represented by: DR. SANJAY KUMAR

And

Sigma Softgel & Formulation PLOT NO. 171 HPSIDC INDUSTRIAL AREA, BADDI DISTT-SOLAN (HP) -173205 hereinafter referred to as "Sigma Softgel & Formulation" (which term shall so far as the context admits to be deemed to mean and include its successors, executors and assignees). THE SECOND PARTY represented here in by its Mr. Minal.

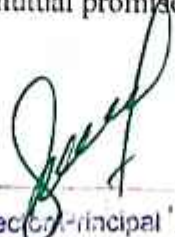
**PURPOSE OF MOU**

In particular, this MOU is intended to

1. Arrange the placements for GCOP students when required into different departments.
2. Organize industrial trainings of all pharmacy students and industrial visits as per Requirement
3. Company will provide employees for vocational courses as per requirement.

Now therefore, in consideration of the mutual promises set forth in this MoU, the parties hetero agree as follows

  
Gautam  
Hamirpur (H.P.)-177001

  
Director-Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001



## Clause 1 CO-OPERATION

1.1 Both parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations. The parties shall keep each other informed of potential opportunities and share all information that may be relevant to secure additional opportunities for one another.

1.2 The co-operation between First Party and Second Party will facilitate effective utilization of the intellectual capabilities of the Second Party providing significant inputs to them in developing suitable teaching/ training systems, keeping in mind the needs of the First Party.

## Clause 2 SCOPE OF THE MOU

2.1 Both parties believe that close co-operation between the two would be a major benefit to the student community to enhance their skills and knowledge.

2.2 The Second Party will give valuable inputs to the First Party in teaching/ training methodology so that the students fit into the industrial scenario meaningfully.

2.3 The interaction between Industry and Community College Centre will give an insight into the latest developments /requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs/ Workshops/ Industrial Sites for the hands-on training of the learners enrolled with the First Party.

2.4 The Second Party will train the students of the First Party on the emerging technologies in order to bridge the gap in skill and make them ready for industry.

2.5 The Second Party will extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in-house requirements.

2.6 The Second Party will actively engage to help the delivery of the training and placement of students of the First Party into internships/jobs.

## Clause 3 VALIDITY

3.1 This MoU will remain valid for Five year and may be continued thereafter after suitable review and agreement.

3.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations.

3.3 Any dispute will be settled mutually.

This MoU is signed subject to approval of the respective academic/administrative bodies.

Chief Executive Officer  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

Director, Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

**Clause 4**

**First Party Gautam college of Pharmacy will use company logo of Second Party Sigma Softgel & Formulation for the purpose of Marketing Such as in Advertisement Material, in Events, In Prospectus and in brochures along with other logos.**

**AGREED**

**Director**

**Gautam College of pharmacy**

**Date:**

Gautam College of Pharmacy  
Hamirpur (H.P.)-177001



**Authorized signatory**

**On Behalf of Sigma Softgel & Formulation**

**Date:**

**Witness**

**On behalf of Gautam College of Pharmacy**

**Witness**

**On Behalf of Sigma Softgel & Formulation**

**Director (Principal)**  
**Gautam College of Pharmacy**  
**Hamirpur (H.P.)-177001**



## MEMORANDUM OF UNDERSTANDING

Gautam Group of College, Hamirpur (H.P.)  
&  
School of Pharmacy and Emerging Sciences, Baddi University of Emerging  
Sciences & Technology (H.P)

This MEMORANDUM OF UNDERSTANDING entered into on this 10 day of June, 2024

BETWEEN

Gautam College of Pharmacy, Hamirpur, through its Director cum Principal Prof. (Dr.) Sanjay Kumar from Gautam College of Pharmacy, Hamirpur, having expertise in the areas of scientific, Pharmaceutical education and research, affiliated college of HPTU as the **First Part**.

&

The School of Pharmacy and Emerging Sciences, Baddi University of Emerging Sciences & Technology, Baddi, (H.P) through the Dean, Prof.(Dr) Ravinesh Mishra having expertise in the areas of Scientific, Pharmaceutical Education and Research, as the **Second Part**.

WHEREAS, Gautam College of Pharmacy, Hamirpur and School of Pharmacy and Emerging Sciences, Baddi University of Emerging Sciences & Technology, (H.P) have many areas of common interest in Pharmacy and Sciences, considerable advantage may be gained from their pursuit on a collaborative basis in the fields of academics, education and research.


NOW THEREFORE Gautam College of Pharmacy, Hamirpur and School of Pharmacy and Emerging Sciences, Baddi University of Emerging Sciences & Technology, (H.P) have decided to enter into this Memorandum of Understanding (hereinafter referred to as MoU), which defines the framework for the cooperation of the two institutions set out in the following sections.


ARTICLE: OBJECT

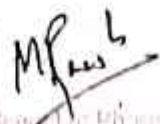
Both Institutes agree to develop the following collaborative activities in the academic areas of mutual interest, on a basis of equality and reciprocity.

The two institutions shall seek to promote:

a. Faculty/Scientist/Staff Exchanges

  
Director cum Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

  
Director cum Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

  
Dean  
School of Pharmacy & Emerging Sciences  
Baddi University of Emerging Sciences  
& Technology, Baddi, Jammu, H.P. &

- (i) The exchange of faculty to the mutual benefit of both institutions.
- (ii) Collaboration in teaching, research and development, and consultancy studies in the field of mutual interest.
- (iii) The exchange of academic materials and publications.
- (iv) Conducting lectures.
- (v) Undertaking joint research.
- (vi) Attachment of staff for purposes of curriculum development and review, attendance of courses, upgrading of teaching and research skills.
- (vii) Participating in seminars, symposiums, and other types of academic discussions.
- (viii) Co-supervising post graduate / Doctoral Students.
- (ix) Conducting study tours and joint consultancy work.

A specific plan will be worked out for each activity; setting forth detailed arrangements for collaboration will be agreed. Terms and conditions for each visit or an assignment or such exchange, including those concerning salary, travel funding and housing will be worked out between the institutes. A separate agreement will be entered into giving such details including term of exchange of any intellectual property.

#### ARTICLE: COORDINATION

Each institution shall appoint one member of its teaching/research faculty to coordinate the programme on its behalf. Further, a coordination committee consisting of a programme coordinator from the side of Gautam College of Pharmacy, Hamirpur, and a programme coordinator from the side of School of Pharmacy and Emerging Sciences, Baddi University of Emerging Sciences & Technology, (H.P) will periodically review and identify ways to strengthen cooperation between the two institutions.


#### ARTICLE: CONFIDENTIAL INFORMATION


Gautam College of Pharmacy, Hamirpur and School of Pharmacy and Emerging Sciences, Baddi University of Emerging Sciences & Technology, (H.P) both does not absolve any confidential information during the research activity.

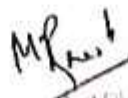
#### ARTICLE: INTELLECTUAL PROPERTY RIGHTS

Ownership of any intellectual property (including but not limited to confidential information, know-how, patents, copyrights, design rights, rights relating to computer software, and any other industrial or intellectual property rights) developed jointly during the course of this MOU shall be vested in both institutes to this Memorandum.

Both institutes shall have the joint right to determine the commercial exploitation and disposition of such intellectual property, and both institutes shall make joint applications for

  
 Director/Principal  
 Gautam College of Pharmacy  
 Hamirpur (H.P.)-177001

  
 Director/Principal  
 Gautam College of Pharmacy  
 Hamirpur (H.P.)-177001

  
 Director/Principal  
 School of Pharmacy & Emerging Sciences  
 Baddi University of Emerging Sciences &  
 Technology, Baddi, Solan, H.P (India)

the registration of the same. Before any registration or commercialization of any intellectual property takes place, the institutes agree to reach a separate agreement covering issues such as exploitation rights and revenue sharing.

Any publication regarding such intellectual property shall only be possible with the prior written consent of both institutes, such consent not to be unreasonably withheld.

Gautam College of Pharmacy, Hamirpur or School of Pharmacy and Emerging Sciences, Baddi University of Emerging Sciences & Technology, (H.P) shall be free to use perpetually the results arising out of the collaborating activities for its own internal teaching, research, educational, clinical and publication purposes without the payment of royalties or other fees to the other party.

#### ARTICLE: VALIDITY

The Memorandum shall remain in force for a period of **FIVE** years commencing from effective date. Institutions may extend the term by written agreement signed by both after review.

#### ARTICLE: TERMINATION

Either institution may terminate the MoU by giving written notice of **six months** in advance to the other institution. Once terminated, neither Gautam College of Pharmacy, Hamirpur nor School of Pharmacy and Emerging Sciences, Baddi University of Emerging Sciences & Technology, (H.P) will be responsible for any losses, financial or otherwise, which the other institutions may suffer.

However, Gautam College of Pharmacy, Hamirpur and School of Pharmacy and Emerging Sciences, Baddi University of Emerging Sciences & Technology, (H.P) will ensure that the provisions of this Memorandum shall continue to apply to all activities in progress until their completion.

#### ARTICLE: AMENDMENTS/MODIFICATIONS


This MoU may be amended or modified by a written agreement signed by the representatives of both institutes.


#### ARTICLE: ADHERENCE TO LAWS

Participating faculties, staff and students involved in any activities under this Memorandum must adhere to the law of the host countries and rules and regulations of the institutions.

#### ARTICLE: LEGAL EFFECT

Nothing in this Memorandum shall be construed as creating any legal relationship between the institutes. This Memorandum is a statement of intent to foster genuine and mutually beneficial collaboration.

  
Director,  
Gautam College of Pharmacy,  
Hamirpur (H.P.)-177001

  
Director, Principal,  
Gautam College of Pharmacy,  
Hamirpur (H.P.)-177001

  
Director, School of Pharmacy & Emerging Sciences,  
Baddi University of Emerging Sciences &  
Technology, Baddi, Solan, H.P. (India)



ARTICLE: DISPUTE RESOLUTION

In case, there is a dispute relating to any aspect of academic cooperation, Director cum Principal, Gautam College of Pharmacy, Hamirpur and School of Pharmacy and Emerging Sciences, Baddi University of Emerging Sciences & Technology, (H.P) will jointly resolve the dispute in a spirit of independence, mutual respect, and shared responsibility.

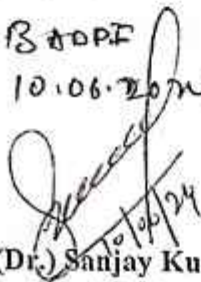
Gautam College of Pharmacy, Hamirpur and School of Pharmacy and Emerging Sciences, Baddi University of Emerging Sciences & Technology, Baddi, (H.P) welcomes the establishment of this Memorandum for cooperation and jointly agrees to the provisions as set out above.

IN WITNESS WHEREOF, the parties here to have executed this indenture (MOU) the day the year First here in above written.



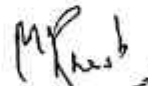
Dr. Rajneesh Gautam  
Secretary,  
Gautam Group of Colleges,  
Hamirpur (H.P)

Place: BADDI  
Date: 10.06.2024



Prof. (Dr.) Sanjay Kumar  
Director cum Principal,  
Gautam College of Pharmacy,  
Hamirpur (H.P) 77001

Place: BADDI  
Date: 10.06.2024



Prof. (Dr) Ravinesh Mishra  
Dean, School of Pharmacy and Emerging  
Sciences, Baddi University of Emerging  
Sciences & Technology Baddi, (H.P)

Place: BADDI  
Date: 10.06.2024  
School of Pharmacy & Emerging Sciences,  
Baddi University of Emerging Sciences &  
Technology, Baddi, Solan, H.P. (India)



Dr. Bhartendu Sharma  
Head, School of Pharmacy and Emerging  
Sciences, Baddi University of Emerging  
Sciences & Technology, Baddi, (H.P)

Place: BADDI  
Date: 10.06.2024



Director cum Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001



MEMORANDUM OF UNDERSTANDING BETWEEN  
GAUTAM COLLEGE OF PHARMACY  
AND

YUVENTIS LIFE SCIENCE

Providing students for placements, Industry visits & Industrial training etc.

This Memorandum of Understanding (here in after called as the 'MOU') is made at Gautam college of pharmacy on 11 November 2019.

Gautam College of pharmacy, here in after referred to as "GCOP", Ward no 10 Near bus stand District: Hamirpur, Himachal Pradesh - 177001 Represented by: Sanjay Kumar.

And


Yuventis Life Science Plot No. 7 & Plot No. 8 Phase 3. extension HPSIDC, industrial Area, baddi-173205, Distt. Solan (H.P) hereinafter referred to as "Yuventis Life Science" (which term shall so far as the context admits to be deemed to mean and include its successors, executors and assignees). THE SECOND PARTY represented here in by its \_\_\_\_\_

**PURPOSE OF MOU**

In particular, this MOU is intended to

1. Arrange the placements for GCOP students when required into different departments.
2. Organize industrial trainings of all pharmacy students and industrial visits as per Requirement
3. Company will provide employees for vocational courses as per requirement.

Now therefore, in consideration of the mutual promises set forth in this MoU, the parties hetero agree as follows

  
Director/Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

### Clause 1 CO-OPERATION

1.1 Both parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations. The parties shall keep each other informed of potential opportunities and share all information that may be relevant to secure additional opportunities for one another.

1.2 The co-operation between First Party and Second Party will facilitate effective utilization of the intellectual capabilities of the Second Party providing significant inputs to them in developing suitable teaching training systems, keeping in mind the needs of the First Party.

### Clause 2 SCOPE OF THE MOU

2.1 Both parties believe that close co-operation between the two would be a major benefit to the student community to enhance their skills and knowledge.

2.2 The Second Party will give valuable inputs to the First Party in teaching/ training methodology so that the students fit into the industrial scenario meaningfully.

2.3 The interaction between Industry and Community College Centre will give an insight into the latest developments /requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs/ Workshops/ Industrial Sites for the hands-on training of the learners enrolled with the First Party.

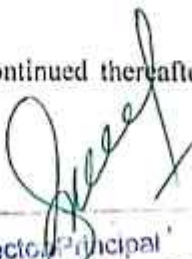
2.4 The Second Party will train the students of the First Party on the emerging technologies in order to bridge the gap in skill and make them ready for industry.

2.5 The Second Party will extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in-house requirements.

2.6 The Second Party will actively engage to help the delivery of the training and placement of students of the First Party into internships/jobs.

### Clause 3 VALIDITY

3.1 This MoU will remain valid for Five year and may be continued thereafter after suitable review and agreement.

  
Director/Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

3.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations.

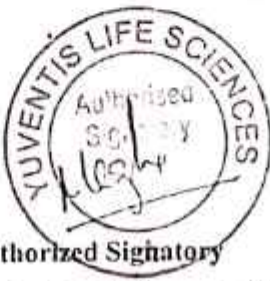
3.3 Any dispute will be settled mutually.

This MoU is signed subject to approval of the respective academic/administrative bodies.

**Clause 4**

First Party Gautam college of Pharmacy will use company logo of Second Party Yuventis Life Science for the purpose of Marketing Such as in Advertisement Material, in Events, In Prospectus and in brochures along with other logos.

AGREED



Authorized Signatory  
On Behalf of Yuventis Life Science

Date:

Director  
Gautam College of Pharmacy  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

Witness  
On behalf of Gautam College of Pharmacy

Witness  
On Behalf of Yuventis Life Science



MEMORANDUM OF UNDERSTANDING BETWEEN  
GAUTAM COLLEGE OF PHARMACY  
AND  
PLENA REMEDIES

Providing students for placements, Industry visits & Industrial training etc.

This Memorandum of Understanding (here in after called as the 'MOU') is made at Gautam college of pharmacy on 03February, 2024.

Gautam College of pharmacy, here in after referred to as "GCOP", Ward no 10 Near bus stand District: Hamirpur, Himachal Pradesh - 177001 Represented by: Sanjay Kumar

And


Plena Remedies Plot No-17, Industrial Area (Himuda), Bhatolikalan, Baddi, Dist-Solan (H.P) 173205 hereinafter referred to as "Plena Remedies" (which term shall so far as the context admits to be deemed to mean and include its successors, executors and assignees). THE SECOND PARTY represented here in by its \_\_\_\_\_

**PURPOSE OF MOU**

In particular, this MOU is intended to

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2. Organize industrial trainings of all pharmacy students and industrial visits as per Requirement
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Director/Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001

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**Clause 4**

First Party Gautam college of Pharmacy will use company logo of Second Party Plena Remedies for the purpose of Marketing Such as in Advertisement Material, in Events, In Prospectus and in brochures along with other logos.

**AGREED**



Director  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001  
Gautam College of pharmacy




Authorized Signatory

On Behalf of Plena Remedies

Date:

Witness  


On behalf of Gautam College of Pharmacy

  
Witness Achish Pandha

On Behalf of Plena Remedies

  
Director/Principal  
Gautam College of Pharmacy  
Hamirpur (H.P.)-177001