

CAREER DEVELOPMENT CENTRE



Date: 22nd September 2021.

Subject: Value Added Trainings School of Pharmaceutical and Population Health Informatics

Attention: B.Pharm- VIIth Semester (Session-ODD-2021-22)

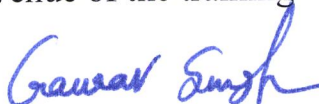
Above mentioned students are hereby informed that as per the approved value added trainings for the academic year 2021-22, Career Development Centre offers the below mentioned technical training in the odd semester (2021-22). Details as follows:

Training	Semester	Program	Date of Commencing
Clinical Pharmaco Informatics (VAT-71)	VIIth	B.Pharm	3 rd October 2021

NOTE:

1. It is mandatory for all the concerned students to enroll for at least two value added training in the current semester. In case of any query please contact the Career Development Centre, DIT University.
2. The Department concerned shall notify the details about timings and venue of the training sessions keeping Career Development center in loop.


Dr. Havagiray Chitme
HoD- SoPPHI
Head
Faculty of Pharmacy
DIT University, Dehradun


Gaurav Singh
Head- CDC
Career Development Cell
DIT University, Dehradun

To:

- All Deans / Directors
 - HoDs
 - Head CDC
- With the request to bring the above to the notice of the students

Copy to:

- Chairman
 - Chancellor
 - Vice Chancellor
 - Pro Vice Chancellor
- For information please


Registrar
DIT University, Dehradun

VAT 71- Clinical Pharmaco-informatics

Venue: Vishveshwarya 506 | **Duration:** 36 Hrs (3rd October 2021 to 5th November 2021)

The Clinical Pharmacognosy training was conducted for students of Bachelor of Pharmacy program (7th Semester), the targeted students for the training were those who had to be skilled for areas like pharma industries, vaccine development, clinical research projects, academic research. It was conducted by the **School of Pharmaceutical and Population Health Informatics**, the coordinator for the training was **Dr. Dhirodatta Senapati**.

OBJECTIVE:

The training aims to give an added value to the students of Bachelor of Pharmacy both at academic level and industry level in the areas like pharma industries, vaccine development, clinical research projects, academic research, etc. Main objectives:

1. To learn the world of Bioinformatics and its evolution.
2. Assess the, different types of biological data and bioinformatics resources.
3. Assess and explain the tools and techniques of analysing DNA and protein sequences.
4. Discuss the basic principles and applications of pharmacogenomics.
5. Utilize the different analysis packages available for different computational jobs.

TRAINING OUTLINE:

1. Introduction to bioinformatics
2. Chemo-informatics & Drug Design
3. Predictive Pharmacology
4. Project Work



Registrar
DIT University, Dehradun

Divided into 5 Units:

UNIT I: Overview of Bioinformatics and Information Technology History, Scope and application, Internet and World Wide Web; Generation of computers; Concept of Networking; Introduction to Data Mining; Application of data mining in Bioinformatics.

UNIT II: Bioinformatics Resources Biological databases, Basic classification – Sequence & Structure; Generalized & Specialized.

UNIT III Bioinformatics techniques Sequence comparison and alignment; Local and Global Alignment , Concept of Gap, Gap Penalty & Scoring Matrices , Dot Plot Analysis.

UNIT IV: Bioinformatics tools Information retrieval system (Entrez, SRS); Sequence alignment tools (BLAST, FASTA, CLUSTAL-W/X, MUSCLE, TCOFFEE), Variants of BLAST.

Training also involved the concepts of Information and Knowledge Delivery. The next core competency needed, information and knowledge delivery which involves how the databases are utilized. Pharmacy informaticists ensure that there is interoperability between the pharmacy information system and all other medication-related systems. With constant changes to clinical practice and complexities within health care, integrated systems are needed to support the delivery of accurate medication-related information to the end-user at the point of clinical decision-making. Pharmacy informaticists support best practices and apply knowledge of informatics principles, human factors, and systems design to the user interface, to ensure that there is no confusion or incorrect information at the point of care. This information delivery can be provided before decisions are made or passively as reference information. Pharmacy informaticists not only support and oversee the creation, application, delivery, and management of clinical information and knowledge, but they also inform how systems should be developed and why interoperability is essential to safe medication management.



Registrar
DIT University, Dehradun

FUTURE DIRECTIONS

There are many more interesting areas within health and pharmacy informatics to learn about and further develop. We have described only some examples of a pharmacy informaticist's operational responsibilities and current initiatives, but we foresee that the future holds many exciting changes. The health informatics curriculum is well established in medical and nursing training; however, in pharmacy, it has been slower to evolve. Although it is not new, the practice of pharmacy informatics is in a state of rapid growth. This diverse and evolving field leads the use of technology at multiple levels of pharmacy practice, from departmental projects to national collaborative. Equipped with a strong understanding of medication management workflows and knowledge of clinical system functionalities, pharmacy informaticists are in a great position to collaborate with other health care providers to optimize information management, improve workflow, and reduce medication errors. By supporting and developing the pharmacy informatics role, the profession of hospital pharmacy can optimize innovations to medication-related processes so that pharmacists can continue to improve patient care and outcomes.

Training Outcomes:

1. Knowledge of bioinformatics tools application in drug discovery and development process.
2. Scientific professionals with added values of pharmcoinformatics in biological /pharmaceutical sciences research, at both academic level and industry level.
3. Acquisition of additional skills in Pharmaco-informatics for manpower required in pharma industries, vaccine development, clinical research projects, research, etc.
4. Added skills to students pursuing post-graduate studies in life sciences/pharmaceutical sciences/clinical sciences, etc.



Registrar
DIT University, Dehradun

Annexure - II

Value added course Details (Academic Year: 2021-22)

VAT Course Name: Clinical Pharmaco-informatics

VAT Code: VAT 71

Duration in Hours: 36

Number of Students Enrolled: 63

Number of Students Completed: 58

Grades:

G= GOOD ; S = Satisfactory ; P = Poor ; W = Withdraw

Student ID	Student Name	Program/Course	Year	Passing Grade
170921011	ANURAG MISHRA	Bachelor of Pharmacy	4th Year	S
180921001	SHEETAL DHULL	Bachelor of Pharmacy	4th Year	S
180921002	NAND KISHOR	Bachelor of Pharmacy	4th Year	G
180921003	SAPTARSHI DUTTA	Bachelor of Pharmacy	4th Year	G
180921004	TARUN KUMAR	Bachelor of Pharmacy	4th Year	S
180921005	ABHINAV GUPTA	Bachelor of Pharmacy	4th Year	P
180921006	SAMARDEEP SINGH RAWAT	Bachelor of Pharmacy	4th Year	S
180921007	SUMERA SHAMIM	Bachelor of Pharmacy	4th Year	S
180921008	PRADEEP KUMAR	Bachelor of Pharmacy	4th Year	G
180921009	UJJAWAL KAKRAN	Bachelor of Pharmacy	4th Year	G
180921010	PRAJVAAL	Bachelor of Pharmacy	4th Year	S
180921011	AROHI SAXENA	Bachelor of Pharmacy	4th Year	S
180921013	MOHD SHAZEB	Bachelor of Pharmacy	4th Year	G
180921014	MOHD ARSH FIROZ	Bachelor of Pharmacy	4th Year	G
180921015	MANSI SINGHAL	Bachelor of Pharmacy	4th Year	S
180921016	ROHIT KUMAR	Bachelor of Pharmacy	4th Year	S
180921017	NAMAN KULSHRESTHA	Bachelor of Pharmacy	4th Year	G
180921018	NOMAN SHAREEF	Bachelor of Pharmacy	4th Year	S
180921019	CHIRAG RAWAT	Bachelor of Pharmacy	4th Year	S
180921020	ASHWANI PUNDIR	Bachelor of Pharmacy	4th Year	G
180921021	PIYUSH SAINI	Bachelor of Pharmacy	4th Year	G
180921024	RITIK VERMA	Bachelor of Pharmacy	4th Year	S
180921025	SUYASH TRIVEDI	Bachelor of Pharmacy	4th Year	S
180921026	PRANAV PRAKASH	Bachelor of Pharmacy	4th Year	S
180921027	PRASHANT KUMAR	Bachelor of Pharmacy	4th Year	S
180921028	SHAGUN ARORA	Bachelor of Pharmacy	4th Year	S
180921029	SUDHANSHU PANWAR	Bachelor of Pharmacy	4th Year	S
180921030	GURPREET SINGH	Bachelor of Pharmacy	4th Year	G
180921031	AMIT JOSHI	Bachelor of Pharmacy	4th Year	G
180921034	VISHAL PANJWANI	Bachelor of Pharmacy	4th Year	S
180921035	SANJANA CHAMOLI	Bachelor of Pharmacy	4th Year	S
180921037	SHUBH SINGHAL	Bachelor of Pharmacy	4th Year	S
180921038	RITIK	Bachelor of Pharmacy	4th Year	S
180921039	SHIVANGI SINGH	Bachelor of Pharmacy	4th Year	S
180921040	UTKARSH	Bachelor of Pharmacy	4th Year	S
180921042	PRASHANT KUMAR	Bachelor of Pharmacy	4th Year	S
180921043	SHAHRUKH KHAN	Bachelor of Pharmacy	4th Year	P
180921044	ANISH KUMAR	Bachelor of Pharmacy	4th Year	S
180921045	BHARTI JANGRA	Bachelor of Pharmacy	4th Year	S
180921046	SANJANA RAJ	Bachelor of Pharmacy	4th Year	G

Registrar
DIT University, Dehradun

180921048	SAURABH	Bachelor of Pharmacy	4th Year	P
180921050	AMAN VERMA	Bachelor of Pharmacy	4th Year	S
180921051	MUKUL PAL	Bachelor of Pharmacy	4th Year	G
180921052	VISHAL KUMAR	Bachelor of Pharmacy	4th Year	G
180921053	RITESH KUMAR	Bachelor of Pharmacy	4th Year	G
180921054	MUNAL KUMAR	Bachelor of Pharmacy	4th Year	S
180921055	YASHODHAR CHAUDHARY	Bachelor of Pharmacy	4th Year	S
180921056	GULSHAN KUMAR SINGH	Bachelor of Pharmacy	4th Year	S
180921057	HARSH SINGH	Bachelor of Pharmacy	4th Year	G
180921058	ROHIT DHIMAN	Bachelor of Pharmacy	4th Year	G
180921060	SHREYA SHARMA	Bachelor of Pharmacy	4th Year	S
180921061	HIMANSHI CHAUHAN	Bachelor of Pharmacy	4th Year	S
180921062	PRAKASH KUMAR GUPTA	Bachelor of Pharmacy	4th Year	G
190921900	SHIVANK SHARMA	Bachelor of Pharmacy	4th Year	S
190921901	ANUSHKA	Bachelor of Pharmacy	4th Year	S
190921902	VISHAL SINGH	Bachelor of Pharmacy	4th Year	P
190921903	SURAJ KUMAR SINGH	Bachelor of Pharmacy	4th Year	G
190921904	ARJUN SINGH RANA	Bachelor of Pharmacy	4th Year	S
190921905	KARISHMA CHAUHAN	Bachelor of Pharmacy	4th Year	S
190921906	NEERAJ JOSHI	Bachelor of Pharmacy	4th Year	S
18P277050	AAKASH SAINI	Bachelor of Pharmacy	4th Year	S
ADM/004989	DIBYA DARSHAN KASHYAP	Bachelor of Pharmacy	4th Year	P
ADM/004991	MADHURJYA BORA	Bachelor of Pharmacy	4th Year	S

Verified & Submitted
Kanchan Kaur
 Head, CDC
 Career Development Cell
 DIT University, Dehradun


 Registrar
 DIT University, Dehradun