CERTIFICATE PROGRAM REPORT 2020-21

COLLEGE IQAC ACTIVITY No: SVC/CERTIFICATE COURSES/ 2020-21

NAME OF THE ACTIVITY: Add on Course/ Certificate Course				
DATE	FACULTY	DEPARTMENT/COMMITTEE	COORDINATOR NAME	
September 2020-	Science	Zoology + Biochemistry	Dr. N. Latha (Biochemistry)	
January 2021			Dr. Anita Verma (Zoology)	
			Dr. Mansi Verma (Zoology)	
TIME	MODE	NUMBER OF PARTICIPANTS	NATURE: Outdoor/Indoor	
Every Saturday	Online mode-	42	Indoor	
	Google meet			
SUPPORT/ASSISTANCE:	Offered by Sri Venkateswara College, the certificate course is a 4 month part			
	time self-financing course (Registration fees : Rs. 3500.00) that aims to			
	provide skill set in the area of Bioinformatics & Computational Biology			

BRIEF INFORMATION ABOUT THE ACTIVITY (CRITERION NO. – I/V/VII)

TOPIC/SUBJECT	Certificate Program in Bioinformatics & Computational Biology (CBC)
OF THE ACTIVITY	2020
OBJECTIVES	It is well recognized that information technology based scientific approach has become a great asset in both academia and Industry. The advancement in next- generation sequencing technology has led to a rapid upsurge in the amount of genomic data for analysis. The data comprises of only the nucleotides that make the DNA but has huge functional significance for determining the characteristics and role of microbes. Considering the importance of this data there is a need for organizing a training program for students. The Certificate program (Add on Course) in Bioinformatics & Computational Biology aims to create skilled manpower with the following objectives – 1. To create an awareness with respect to the basic tools and techniques used in bioinformatics 2. To provide complete hands-on-training in the basic tools and techniques 3. To inspire and promote biology teaching through bioinformatics to all life sciences students
METHODOLOGY	 Experts from both Academia and Industry were invited to interact with students. Coordinators also worked as resource persons The following coursework was framed: <u>Course Content</u> Theory Basics in Bioinformatics – Scope of Bioinformatics, Databases, Sequence Analysis, Phylogenetics Genomics – Gene Organization, Introduction to NGS and data assembly, Gene Prediction tools, Molecular Modeling & Simulation – Protein Structure Prediction, Validation tools Drug Discovery & Development - Computer Aided Drug Design (CADD), Personalized Medicine, Drug Databases Applications of Bioinformatics - Big Data Analytics, Systems Biology, PPIN Hands-on Session Biological Databases – Protein Databases, Nucleotide Databases, Drug Databases

	 Sequence analysis – Pairwise & Multiple Sequence Alignment Phylogenetic analysis- gene based, genome based Protein Modelling CADD – Ligand Preparation, Virtual Screening by Docking
OUTCOMES	 During online mode, students learnt about various basic and advanced tools in bioinformatics. Students learnt about what are databases, how databases are curated, what is the need of databases, DNA databases and Protein databases. Moving further, students got aware about sequence retrieval using these databases. The most fascinated part for them was to visualize protein structures in 3D format. Hands on session proved to be really boon for students as they could perform the exercises alongwith with resource persons in online mode during pandemic. Students also got opportunity to interact with experts in the area of Bioinformatics & Computational Biology: Prof Y Singh, Dean (Research), University of Delhi Prof Andrew Lynn, School of Computational & Integrative Sciences, JNU, New Delhi Dr. N. Latha, Coordinator, Bioinformatics Centre , Sri Venkateswara College Dr. Nidhi Jatana, IGIB , Delhi Prof Arun Jagannath, Department of Botany, University of Delhi Dr. Mansi Verma, SVCollege Prof. Rup Lal, TERI, New Delhi Dr. Vipin Gupta, Phixgen Pvt. Ltd. Dr. Surojit Sandhu, Advent Informatics, Pune Dr. Gitanjali Yadav , NIPGR, New Delhi Overall, the Certificate Course was an enriching experience for students to learn bioinformatics.

PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):

Notice & Letters	Student list of participation V	Activity report	Photos	Feedback form v
Feedback analysis	News clip with details	Certificate	Any other	
IQAC Document No:		Criterion No: I, V, VII		Metric No:
Departmental file no: SVC/Certificate Course		IQAC file No;		

NAME OF TEACHER &	NAME OF HEAD/ COMMITTEE INCHARGE & SIGNATURE	IQAC COORDINATOR (SEAL & SIGNATURE)
SIGNATURE		
Dr. N. Latha Dr. Anita Verma Dr. Mansi Verma	Dr. N. Latha Dr. Anita Verma Dr. Mansi Verma	N. Latte Dr. N. Latta Coordinator, IQAC Coordinator, IQAC Sri Venkatewara College (University of Daihi) Dhaula Kuan, New Daihi-110021

Patron

Dr.S. Venkata Kumar

Principal (Ag) Sri Venkateswara College

Coordinators

Dr. N.Latha

Coordinator Bioinformatics Centre & Associate Professor Department of Biochemistry Sri Venkateswara College

Dr. Anita Verma

Associate Professor Department of Zoology Sri Venkateswara College

Dr. Mansi Verma

Assistant Professor Department of Zoology Sri Venkateswara College

For further details contact

cbc@svc.ac.in 9899916229 9891900122

LEARN NOW! From Concept to Applications

Topics covered

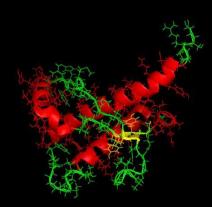
Biological Databases Sequence Analysis Phylogenetics Molecular Modeling Genomics Computer Aided Drug Discovery Biocomputing





Sri Venkateswara College (University of Delhi) offers an add on course

CERTIFICATE PROGRAM IN BIOINFORMATICS & COMPUTATIONAL BIOLOGY (CBC)



LEARNING OUTCOMES

- To access, use and analyze public domain bioinformatics tools and softwares
- Learn to identify, compile, analyze, and communicate complex biological and genetic data for initiatives in areas such as human genome analysis, disease research, and drug discovery and development.

Build your Computational & Scientific skills

HIGHLIGHTS:

ELIGIBILITY

This course is open to all undergraduate students pursuing degree program in Biochemistry, Biological Sciences, Botany, Zoology, Biomedical Sciences, Biotechnology, Chemistry and Physics

COURSE DURATION

This course will be conducted on Saturdays and in holidays/ mid semester break. Program will run for 4 months in online mode (Sep to Dec)

HIGHLIGHTS

- Lectures and hands-on sessions by experts from both academia and industry
- Lectures by eminent speakers from DU, JNU, IIT Delhi, IIIT Delhi, TERI, CSIR-IGIB, NII, NIPGR and more.
- Certificates will be provided on successful completion of evaluation at the end of course.

NUMBER OF SEATS : 30 LIMITED SEATS REGISTER NOW

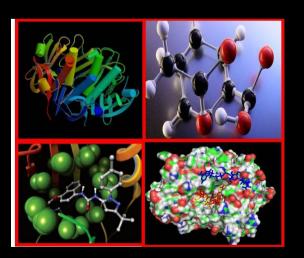
THE COLLEGE DOES NOT TAKE RESPONSIBILITY FOR ADJUSTMENT OF DATES FOR CLASSES/EXAMINATION

REGISTRATION DETAILS & FEE

COURSE FEE : Rs 3500

REGISTRATION

- Register online by September 10, 2020
- Applications available at www.svc.ac.in
- Payment can be done online using credit card/debit card by payment gateway





SRI VENKATESWARA COLLEGE (UNIVERSITY OF DELHI)

Inauguration

CERTIFICATE PROGRAM IN BIOINFORMATICS & COMPUTATIONAL BIOLOGY

S E P T E M B E R 12, 2020

Inauguration of **Certificate Program in Bioinformatics & Computational Biology** in the august presence of **CHIEF GUEST Prof Yogendra Singh** Dean Research (Life Sciences), University of Delhi INAUGURAL LECTURE Prof Andrew M. Lynn School of Computational & Integrative Sciences Jawaharlal Nehru University , Delhi Dr. S. Venkata Kumar Principal (Ag), Sri Venkateswara College COURSE COORDINATOR (s)

Dr. Mansi Verma Assistant Prof. Dept of Zoology Dr. N. Latha Coordinator , Bioinformatics Centre & Asso Prof. Dept of Biochemistry

Dr. Anita Verma Associate Prof. Dept of Zoology

Join Gmeet link : https://meet.google.com/rkc-ydee-usa (Sept12, 10 am)

<u>Students Enrolled for the Add on Course</u> Certificate Program in Bioinformatics & Computational Biology (CBC) 2020

S.No.	Roll Number	Applicant's Name	Email	Mobile Number
1	SVC/2020/262389462028204313	AARTI MURALITHARAN	aarti.murali21@gmail.com	8587074579
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SRI VENKATESWARA COLLEGE (UNIVERSITY OF DELHI) CERTIFICATE PROGRAM IN BIOINFORMATICS & COMPUTATIONAL BIOLOGY

VALEDICTORY LECTURE

DATA SCIENCES IN BIOLOGY



Dr. Gitanjali Yadav NIPGR, New Delhi Join using the Google link https://meet.google.com/rkc-ydee-usa

Coordinators: Dr. Latha Narayanan Dr. Anita Verma & Dr. Mansi Verma Ag. Principal Dr.S. Venkata Kumar



Sri Venkateswara College University of Delhi

CERTIFICATE OF PARTICIPATION

This is to certify that

<u>XYZ</u>

of <u>*Course*</u>, <u>* college name *</u> has sucessfully completed the

CERTIFICATE PROGRAM IN BIOINFORMATICS AND COMPUTATIONAL BIOLOGY

offered by Sri Venkateswara College from September 2020 to January 2021.

DR. MANSI VERMA COORDINATOR DR. ANITA VERMA COORDINATOR DR. N. LATHA COORDINATOR

PROF. C. SHEELA REDDY PRINCIPAL





SRI VENKATESWARA COLLEGE (University of Delhi)

Internal Quality Assurance Cell

Chairperson

Prof C. Sheela Reddy Principal Sri Venkateswara College

IQAC Coordinator Dr. N. Latha Department of Biochemistry

External Members Prof Debi P Sarkar Department of Biochemistry University of Delhi South Campus

Prof Alo Nag University of Delhi South Campus

Dr. Gitanjali Yadav NIPGR, Delhi

Internal Members Dr. Meenakshi Bharat Department of English

Dr. Lalitha Josyula Department of Electronics

Dr. Namita Pandey Department of Political Science

Dr. A. K. Chaudhary Department of Physics

Dr. K.C. Singh Department of Physics

Dr. Swarn Singh Department of Mathematics

Dr. Neeraj Sahay Department of History

Dr. Vartika Mathur Department of Zoology

Dr. Shruti Mathur Department of Commerce

Dr. Padma Priyadarshini Department of Sociology

Dr. Nimisha Sinha Department of Biochemistry

Shri D. Venkat Ramana A.O(1/C) This is to certify that the Activity report (Teacher/Department /Society/Association) has been submitted for documentation to IQAC, Sri Venkateswara College, University of Delhi.

Nº Latha

IQAC Coordinator Sri Venkateswara College

Coordinator, IQAC Sri Venkateswara College (University of Delhi) Dhaula Kuan, New Delhi-110021

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