CERTIFICATE PROGRAM REPORT 2019-20

COLLEGE IQAC ACTIVITY No: SVC/CERTIFICATE COURSES/ 2019-20

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				
METHODOLOGY	Experts from both Academia and Industry were invited to interact with students. Coordinators also worked as resource persons The following coursework was framed: Course Content Theory 1. Basics in Bioinformatics – Scope of Bioinformatics, Databases, Sequence Analysis, Phylogenetics 2. Genomics – Gene Organization, Introduction to NGS and data assembly, Gene Prediction tools, 3. Molecular Modeling & Simulation – Protein Structure Prediction, Validation tools 4. Drug Discovery & Development - Computer Aided Drug Design (CADD), Personalized Medicine, Drug Databases 5. Applications of Bioinformatics - Big Data Analytics, Systems Biology, PPIN Hands-on Session 1. Biological Databases – Protein Databases, Nucleotide Databases, Drug Databases			

Sequence analysis – Pairwise & Multiple Sequence Alignment 3. Phylogenetic analysis- gene based, genome based 4. Protein Modelling 5. **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: 1. Prof Y Singh, Dean (Research), University of Delhi 2. Prof Andrew Lynn, School of Computational & Integrative Sciences, JNU, New Delhi 3. Dr. N. Latha, Coordinator, Bioinformatics Centre, Sri Venkateswara College 4. Dr. Nidhi Jatana, IGIB, Delhi 5. Prof Arun Jagannath, Department of Botany, University of Delhi 6. Dr. Mansi Verma, SVCollege 7. Prof. Rup Lal, TERI, New Delhi 8. Dr. Utkarsh Sood, TERI 9. Dr. Vipin Gupta, Phixgen Pvt. Ltd. 10. Dr. Surojit Sandhu, Advent Informatics, Pune 11. 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 √	Activity report	Photos	Feedback form
				V
Feedback analysis	News clip with details	Certificate	Any other	
IQAC Document No:		Criterion No: 1,	V, VII	Metric No:
Departmental file no: SVC/Certificate Course		IQAC file No;		

NAME OF	NAME OF HEAD/ COMMITTEE	IQAC COORDINATOR (SEAL & SIGNATURE)
TEACHER &	INCHARGE & SIGNATURE	
SIGNATURE		
Dr. N. Latha Dr. Anita Verma Dr. Mansi Verma	Dr. N. Latha Dr. Anita Verma Dr. Mansi Verma	Dr. N. Latha Coordinator, IQAC Coordinator, IQAC Sd Venkateewara College (University of Delhi) Dhaufe Kuen, New Delhi-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

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LEARN NOW!

From Concept to Applications

Topics covered

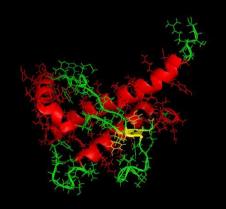
Biological Databases
Sequence Analysis
Phylogenetics
Molecular Modeling
Genomics
Computer Aided Drug Discovery
Biocomputing





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.

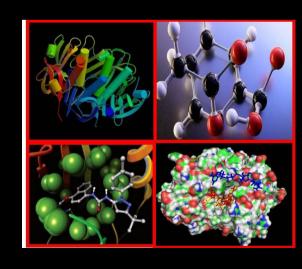
Build your Computational & Scientific skills

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



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



SRI VENKATESWARA COLLEGE (UNIVERSITY OF DELHI)

Inauguration

CERTIFICATE PROGRAM
IN BIOINFORMATICS &
COMPUTATIONAL BIOLOGY

SEPTEMBER 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)

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

S.No.	Roll Number	Applicant's Name	Email	Mobile Number
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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

JAN 15, 2021 AT 5 PM

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

XYZ

of <u>*Course*</u>, * college name * 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