

## **GURU NANAK COLLEGE** (Autonomous)

Guru Nanak Salai, Velachery, Chennai - 600 042

## **REPORT**

1. Event Title : ONLINE CERTIFICATE COURSE ON "PYTHON

PROGRAMMING FOR LIFE SCIENCES"

2. Category : UG/PG STUDENTS, RESEARCH SCHOLARS AND

**FACULTY OF LIFE SCIENCES** 

3. Department : GURU NANAK CENTRE FOR RESEARCH (GNCR)

4. Date :  $1^{st} - 7^{th}$  JULY, 2020

5. No. of Participants : 100 Nos.

6. No. of Resource Persons : 2 Nos.

#### **Report Description:**

The Online Certificate Course on "PYTHON PROGRAMMING FOR LIFE SCIENCES" was conducted by the Guru Nanak Centre for Research (GNCR) of Guru Nanak College (Autonomous) for One Week from 1<sup>st</sup> July to 7<sup>th</sup> July, 2020. The objective of this online certificate course was to provide basic knowledge of Python Programming to Life Sciences Scholars. This Course was designed to help learners take their first step towards enriching their knowledge using the fundamentals of Python programming. Out of total 168 Registrations received, 100 applicants were selected for the Online Course.

The first day of the online course was inaugurated by Dr. M. G. Ragunathan, Principal with this energetic Welcome Address. He welcomed the Resource Persons and the Participants from different Institutions across the State of Tamil Nadu who joined virtually. Dr. J. Jayanthi, Dean Research of Guru Nanak Centre for Research greeted the participants and introduced the Resource Persons Dr. J. Vanathi and Dr. Mahendrakumar. M. The Online Course was conducted through Google Meet with Attendance and Final Assessments were done by Google Forms.

The Online Course was conducted as per the below mentioned schedule.

DAY 1: INTRODUCTION, HISTORY, INSTALLATION OF PYTHON

**DAY 2: PYTHON IDENTIFIERS** 

**DAY 3: PYTHON OPERATORS** 

**DAY 4: DECISION MAKING** 

**DAY 5: STRINGS IN PYTHON** 

**DAY 6: PYTHON COLLECTIONS** 

DAY 7: THE ROLE OF PYTHON IN LIFE SCIENCES

The last day of the Course was concluded with valedictory function where our Principal, Dr. M. G. Ragunathan delivered the Welcome Address and Dean Research of GNCR, Dr. J. Jayanthi spoke the concluding remarks about the course. The participants were happy about getting an opportunity to learn a new programming language and also expressed their satisfaction about the way the online course was conducted. All the participants thanked Guru Nanak Centre for Research for this initiative. Finally the Dean Research, Guru Nanak Centre for Research, Dr. J. Jayanthi rendered the Vote of Thanks.

The Learning Course material of the seven day Programme was compiled and sent to all the participants. The Participants were tested with an Online Assessment and all those who secured 40 % and above were issued the Certificate of Completion of the Online Certificate Course.



#### **GURU NANAK COLLEGE (Autonomous)**

Re-accredited at 'A' Grade by NAAC Guru Nanak Salai, Velachery, Chennai – 600 042.

## **GURU NANAK CENTRE FOR RESEARCH (GNCR)**

# ONLINE CERTIFICATE COURSE ON

#### PYTHON PROGRAMMING FOR LIFE SCIENCES

#### **HARDWARE REQUIREMENTS:**

System: Laptop / Desktop

Operating System: Windows 7, 8, 10

RAM: 1GB or more memory

Hard-Disk Drive: 250 GB

**DATES** 

1st - 7th July, 2020

TIME

2.30 p.m. - 3.30 p.m.

#### **Resource Persons**



Dr. J. VANATHI
Assistant Professor & Head,
Department of B.Sc., (I.T.)



Dr. MAHENDRAKUMAR. M Assistant Professor, Department of Biotechnology

#### WHO CAN ATTEND?

UG & PG Students, Research Scholars and Faculty of Life Sciences

#### NO REGISTRATION FEE

Register @

https://forms.gle/dgPYSrcUM91sZBWD6

Participants must clear the online Exam to qualify for the Certificate

FOR FURTHER ENQUIRIES CONTACT

Dr. J. JAYANTHI (DEAN RESEARCH)

Email: researchdean@gurunanakcollege.edu.in Mobile : 9003053668

Dr. M. G. RAGUNATHAN PRINCIPAL

SARDAR MANJIT SINGH NAYAR GENERAL SECRETARY & CORRESPONDENT

### **PHOTOS**

## **INAUGURATION FUNCTION:**

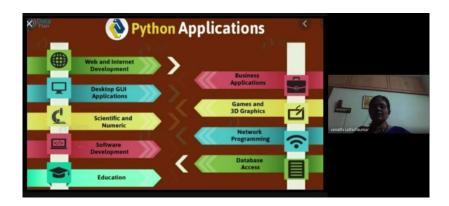


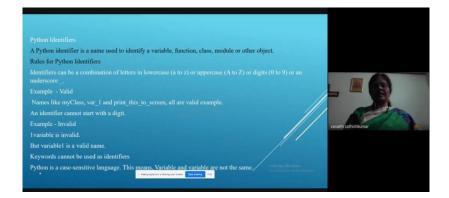


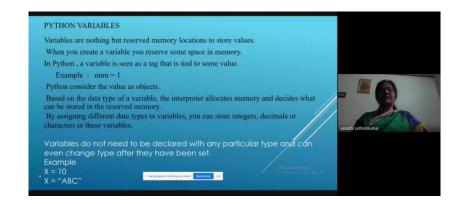


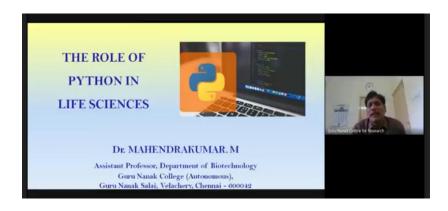


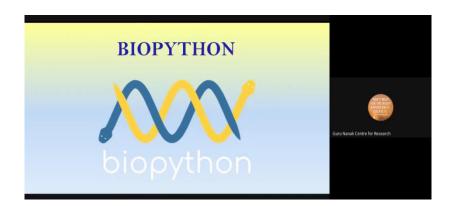












#### Python for Collaborative Drug Discovery

- Finding a new drug often takes over a decade and more than \$800 million. A big problem early in the process is identifying those candidates more likely to be good drugs from the vast universe of possible molecules.
- To save time and money on laboratory work, experimental chemists use computational models to narrow the field of good drug candidates, while also verifying that the candidates to be tested are not simple variations of each other's basic chemical structure.



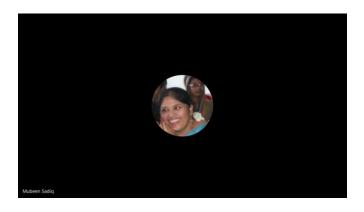
#### **PyMOL**

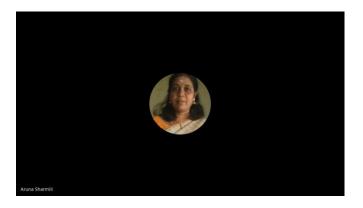
PyMOL is a powerful Python-Based
Software for Computational Drug
Design tool that displays the 3D
structures of biological targets and
offers up to 12 different stereo
visualization modes.



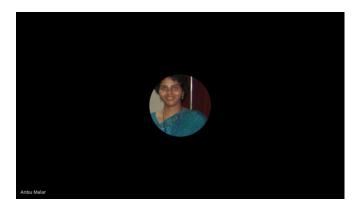


### **PARTICIPANTS FEEDBACK:**









### **VALEDICTORY FUNCTION:**





# GURU NANAK CENTRE FOR RESEARCH GNCR

### GURU NANAK COLLEGE (Autonomous)

(Re-accredited at 'A' Grade by NAAC) Affiliated to University of Madras Guru Nanak Salai, Velachery, Chennai – 600 042

#### ONLINE CERTIFICATE COURSE ON "PYTHON PROGRAMMING FOR LIFE SCIENCES"

This is to certify that

#### HIMANSHU GUPTA. U

Guru Nanak College (Autonomous), Velachery, Chennai - 600 042

has successfully completed the One Week ONLINE CERTIFICATE COURSE ON "PYTHON PROGRAMMING FOR LIFE SCIENCES" from 01.07.2020 to 07.07.2020 and an exam conducted by the Guru Nanak Centre for Research (GNCR), Guru Nanak College (Autonomous), Guru Nanak Salai, Velachery, Chennai - 600 042.

Dr. J. JAYANTHI DEAN RESEARCH CONVENER

Dr. M. G. RAGUNATHAN PRINCIPAL

SARDAR MANJIT SINGH NAYAR GENERAL SECRETARY & CORRESPONDENT