

WHO CAN JOIN?

The course would be initially restricted to 30 participants

Any curious graduate with interest in the subject but preference to be given to graduates in science, engineering, medicine and pharmacy. This course is not meant for those who mistake astronomy with astrology or have some weird or pseudoscientific beliefs/ideas. The decision of teacher in charge would be final on academic and scientific aspects of the course.

The applicants need to fulfill the following conditions and email it to GUASTROBIOLOGY2018@gmail.com

1. Submit Information on educational qualifications
2. Must have good knowledge of computers and Internet and general knowledge about earth and solar system
3. Need to carry a wifi enabled laptop or netbook to class every week
4. Provide full name, address, professional details, contact numbers, email id
5. Explain each of the following three in not more than 50 words (total 50X 4=200)
 1. I wish to join this course because _____
 2. I am very hopeful that some kind of life outside the Earth would be found by scientists because _____
 3. I think there could be extraterrestrial civilization superior to us somewhere in this vast universe because _____
4. I love Carl Sagan for his _____
6. Fees of Rs.3000/- will be charged. For University Students the course is free.
7. For further details contact Dr. Nandkumar M. Kamat, 9423889629, GUASTROBIOLOGY2018@gmail.com before 10th September 2018
8. Or any other details - Director, Directorate of Extramural Studies and Extension Services, Dr. Anthony Viegas - 9326130150



GOA UNIVERSITY

The Board of Extramural Studies and Extension Services

**IS PLEASED TO ANNOUNCE
A NEW EXCITING COURSE**

For Curious Citizens of 21 st century

21 SEPT - 22 DEC, 2018



OUR QUEST FOR SIGNS OF LIFE OUTSIDE EARTH

A non credit course by teacher in charge-
Nandkumar M. Kamat
M.Sc. (Biochemistry), Ph.D. (Microbiology)
(Asst. Professor, Dept of Botany, Goa University,
former Vice President, Association of Friends of Astronomy,
Goa; a popular Science writer and
columnist 'NEW FRONTIERS')



Objective of the course is to impart in as simple medium and language as possible knowledge on life in the universe, uniqueness of Earth and the human scientific quest to search for evidence of extraterrestrial life and intelligent civilizations if they exist



Its 15-16 weeks course

Medium of instruction would be mainly English but explanation would be given in Konkani, Marathi and Hindi if required and participants can interact in any of these four languages throughout this course if need be

On Fridays, 3 PM onwards, Council hall, Goa University, From August 24 to December 22, 2018 - film screening/extra lectures may be organized on some Saturdays

(Interaction would involve Moodle course pages, screening of scientific documentaries, discussion of SF films, online/ written or oral Quizzes, assignments, visit to geological museum, amateur astronomical observatory (AFA)



Broad contents of the course

(Details would be available to registered participants on Moodle course pages)

Lecture 1: The magnitude of the known universe, “where are they”- search for intelligent life in the universe, latest developments in astrobiology

Lecture 2: Origin and distribution of the biologically important chemical elements

Lecture 3: What we know about early Solar System

Lecture 4-5 : Evidence of Earth's bygone biospheres and history of life on Earth

Lecture 6-7: The chemistry of organic life, biochemical and biological evolution

Lecture 8: Requirements for life

Lecture 9-10: Quest for search for life on Mars

Lectures 11-12: Search for life in other parts of our Solar system

Lecture 13-14: Hope from extrasolar Planets?

Lecture 15: Prospects for intelligent life in the Universe

Lecture-16: Astrobiology in 21 st century- the road ahead



COURSE END QUIZ WOULD BE CONDUCTED, AND COURSE COMPLETION CERTIFICATES WOULD BE AWARDED