

**Sant Gadge Baba Amravati University, Amravati (Maharashtra)**  
(NAAC Reaccredited 'A' Grade University)  
**Department of Geology**  
**GIAN Short Term Course on**  
**History of Life and Mass Extinction Events**  
(Course Code: 176039C01)  
October 14-18, 2019

Dear Sir/ Madam,

I am pleased to inform that Department of Geology, Sant Gadge Baba Amravati University is going to organize a Short Term Course on "*History of Life and Mass Extinction Events*" under MHRD program, Global Initiative of Academic Networks (GIAN) and invites Students, Research Scholars, Scientists and Faculty Members.

In this course, the Guest Faculty **Professor Thierry Adattee**, Professor and Head, Institute of Geosciences, University of Lausanne, Switzerland will be delivering lectures and hand-on training session on "*History of Life and Mass Extinction Events*". This will be a great opportunity for the participants to get valuable exposures to excel in the subject.

#### **Modules**

- Principles in Stratigraphy, history, methods (litho-,bio-chrono- stratigraphy). Evolutive palaeontology et micropaleontology, short overview of life evolution. History of life and Mass extinctions events, introduction, evolutive paleontology, causes and mechanisms.
- The origin of life, Precambrian life, the Cambrian explosion-radiation,. The End-Ordovician and End Devonian mass extinctions, causes, mechanisms and consequences.
- The mother of the mass extinctions: Permian-Triassic mass extinction, causes, mechanisms and consequences (volcanism, super anoxia).
- The End-Triassic mass extinction, causes, mechanisms and consequences (volcanism, anoxia...etc.). The Cretaceous-Tertiary mass extinction, causes, mechanisms and consequences (volcanism, Deccan volcanism, impact(s)... etc)-
- The Paleocene-Eocene Thermal maximum (PETM), the best analog for the actual warming?, examples from Europe, Egypt and India. The Anthropocene, stratigraphical basis ?, paleontological evidence, geochemical proxies, the Sixth mass extinction of species

Please visit to following link for details about program

[http://www.gian.iitkgp.ac.in/files/brochures/BR1567081226new\\_Geology\\_GIAN\\_Final\\_29aug.pdf](http://www.gian.iitkgp.ac.in/files/brochures/BR1567081226new_Geology_GIAN_Final_29aug.pdf)

You are also requested to register yourself at GIAN

Portal <http://www.gian.iitkgp.ac.in/GREGN/index> . This registration is one time for all courses and valid for lifetime.

**Dr. S.F.R.Khadri**

**Course Coordinator**

Professor & Head, Department of Geology

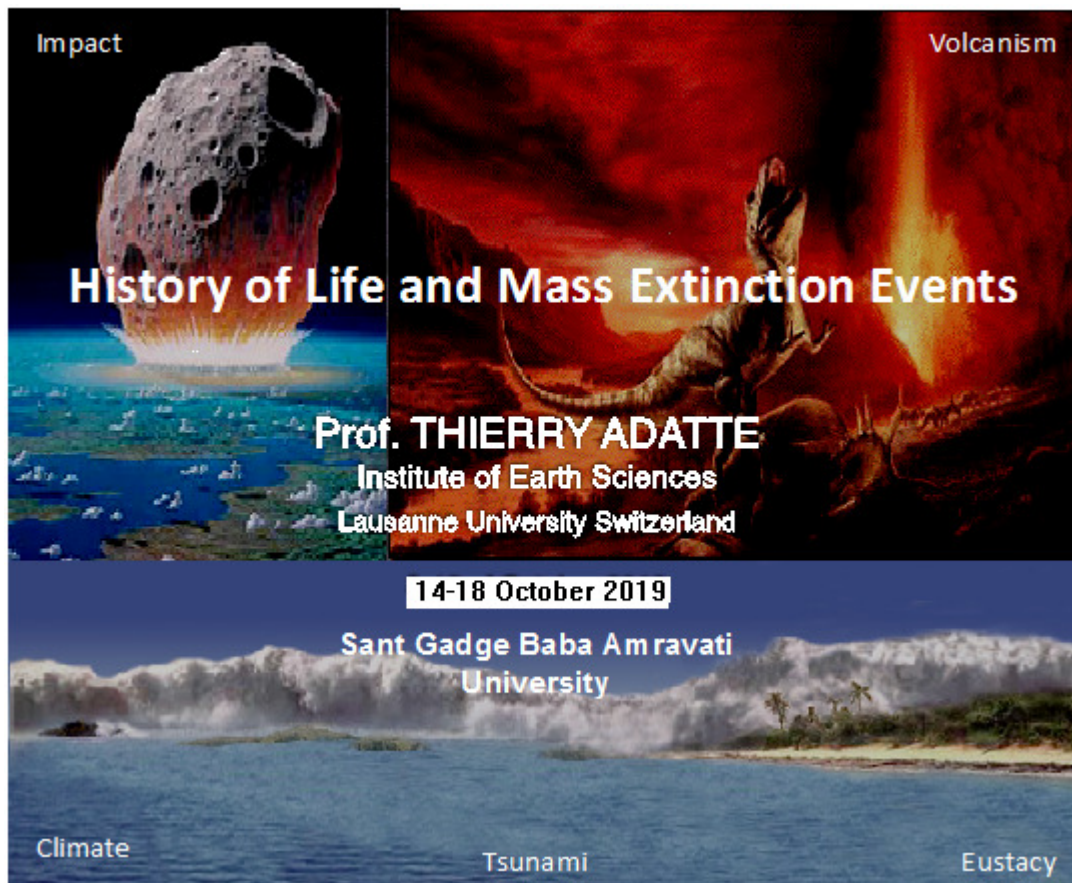
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## **OVERVIEW**

Evolution is essential to our curriculum and to scientific literacy. Imagine teaching social science without teaching history; students would lack perspective on events going on today. Similarly, to understand the big picture of evolution, students need to understand life on Earth in terms of its history and its future — the changing life forms and ecosystems that have arisen and changed over billions of years, as well as the mechanisms that have brought about those changes.

What is a Mass Extinction and why scientists think human beings may be responsible for the next one? What do we know about the past extinctions, including their likely causes? This course will allow to the students to learn about mass extinctions, map extinction events to a geologic timeline, and explore current ideas about whether human influences may lead to another major extinction event. Numerous examples will be also taken from India (e.g. Cretaceous-Tertiary Mass Extinction and Deccan Volcanism)

This course explores the origin of life, the 5 past mass extinction events and the possibility of an ongoing 6<sup>th</sup> mass extinction. It incorporates PowerPoint presentations, reading materials from selected papers and various assignments.



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## OBJECTIVES

- 1) Exposing the participants to the fundamentals of life history, evolution and mass extinctions
- 2) Examining the ancient past mass extinction events to better understand how global warming will lead to mass extinctions.
- 3) Enhancing the capacity of the participants to understand environmental problems using the lessons from the Past.
- 4) Enhancing the capability of the participants to read, understand, summarize and present scientific papers

## Faculty :



**Thierry Adatte** is Professor and Head of the Geochemistry, Mineralogy and Sedimentary laboratory at the Geological Institute of the University of Lausanne, Switzerland.

He received his Ph.D. in Mineralogy and Sedimentary Geology from the University of Neuchâtel, Switzerland.

His research interests focus on global Change associated with Mass Extinction events, high-resolution bio-chemo and sequence stratigraphy.

<b>Module</b>	<p><b>History of Life and Mass Extinction Events:</b>  <b>14<sup>th</sup>–18<sup>th</sup> October 2019</b>  Number of participants for the course will be limited to fifty.</p>
<b>You Should Attend If...</b>	<ul style="list-style-type: none"> <li>• you are a post graduate student/ faculty or research scientist of Life Sciences / Earth Sciences/ Engineering/ Social Sciences wants to know about the fundamentals history of life, evolution and how global warming leads to Mass Extinction events with environmental consequences</li> <li>• you are interested in understanding life on Earth in terms of its history and its future — the changing life forms and ecosystems that have arisen and changed over billions of years, as well as the mechanisms that have brought about those changes</li> <li>• you are a student or faculty from academic institution interested to learn about Mass Extinctions, Mass Extinction events to a geologic timeline and explore current ideas about whether human influences may lead to another major extinction event.</li> </ul>
<b>Fees</b>	<p>The participation fees for taking the course is as follows:  Participants from abroad: US \$125  Industry / Research Organizations: Rs. 3000  Academic Institutions:  Faculty: Rs. 2000  Research Scholars: Rs. 1500  UG/PG Students: Rs 1000</p> <p>The above fee includes all instructional materials, computer use for tutorials and assignments, 24 hr free internet facility. The participants will be provided with accommodation on payment basis.</p> <p><i>Please Register yourself to GIAN Portal also</i> - <a href="http://www.gian.iitkgp.ac.in/GREGN/index">http://www.gian.iitkgp.ac.in/GREGN/index</a>  <i>. Registration to the portal is one time affair and will be valid for lifetime of GIAN. Once registered in the portal, an applicant will be able to apply for any number of GIAN courses as and when necessary. One time Non-refundable fee of Rs. 500/- is to be charged for this service. Please also note that mere registration to the portal will not ensure participation in the courses. The course coordinator has the final say on the selection of participants. Please do not confuse with web registration with course registration. The course registration fee is separate.</i></p>

## Course Co-ordinator

**Dr. S.F.R.Khadri**

**Professor & Head,  
Department of Geology  
Sant Gadge Baba Amravati  
University, Amravati-444602 (MS)  
Email: [khadrisfr@rediffmail.com](mailto:khadrisfr@rediffmail.com)  
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**Dr. S.F.R.Khadri** is the Professor and Head, Department of Geology, Director, IQAC, Sant Gadge Baba Amravati University, Amravati. He received his Ph.D. from IIT, Mumbai. His research interests include Igneous Petrology, Flow Stratigraphy, Geochemistry, Petrogenesis, Hydrogeology, Remote Sensing and GIS, Paleomagnetism, Environmental Sciences, CT Boundary & Mass Extinctions.



**MHRD**  
Govt. of India

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**Registration Form**

Name (in block letters):

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Qualification:

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Designation:

UG/PG Student/Research Scholar/Faculty/Scientist

Organization:

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Mailing address:

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Mobile :

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Fax :

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Email :

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Payment: Rs:

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(i) Demand draft drawn in favour of 'The Finance and Accounts Officer, SGBAU Amravati,  
If payment is by DD, please furnish the following details:

DD No.: \_\_\_\_\_ Dt: \_\_\_\_\_

(ii) Cash Payment on Finance Section, Sant Gadge Baba Amravati University, Amravati

Receipt No. : \_\_\_\_\_ Dt: \_\_\_\_\_

Guest House/Hostel stay needed (will be arranged as per availability on a payment basis):

Yes/No

Signature of Applicant : .....

Date: .....

All completed registration forms may kindly be mailed to:

**Dr. S.F.R.Khadri**

Professor and Head, Department of Geology,

Course Coordinator

Sant Gadge Baba Amravati University, Amravati 444602

E. mail. khadrisfr@rediffmail.com Phone: +91 9423425393 / 8329054661