



Central University of Kerala

Established by the Parliament of India vide the Central University Act, 2009(No.25 of 2009)

Kasaragod, Kerala, India, 671123

DEPARTMENT OF GEOLOGY

No. CUK/GEO/BOS/MIN/2021/01

Dtd: 17/08/2021

Minutes of the 2nd Meeting of the 2th Board of Studies in Geology held online at 10.00 a.m. on 17/08/2021

The Department of Geology, Central University of Kerala conducted the Board of Studies (BoS) meeting on 17th August, 2021. It was the Second BoS meeting of the second Board of Studies. Due to the COVID-19 pandemic situation the meeting was conducted through online via Google Meet platform. The panel members included invited subject experts, Head of the Department, internal members and department faculties as special invitee. The attendees of the meeting were as follows: -

BoS Attendees:

Invited subject experts

- Prof. (Dr.) Rajneesh Bhutani, Professor, Department of Earth Sciences, Pondicherry University
- Prof. (Dr.) Rajesh Raghunath, Professor, Dept .of Geology, University of Kerala,
- Prof. (Dr.) Prakash Narasimha, K.N., Professor, Department of studies in Earth science, University of Mysore, Manasagangotri
- Dr. A. Anil Kumar, Director, Marine & Coastal Survey Division, Geological Survey of India, Manglalur.

Internal members from the Central University of Kerala

- Dr. Pratheesh P., Assistant Professor and HOD (i/c), Dept. of Geology.
- Dr. Sijinkumar A.V., Assistant Professor, Dept. of Geology.
- Dr. S. Anbazhagi, Assistant Professor, Dept. of Environmental Science.

Special invitee from the Central University of Kerala

- Dr. Sandeep K., Assistant Professor, Dept. of Geology.
- Dr. Chandan Kumar B., Assistant Professor, Dept. of Geology.



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The BoS meeting started with the welcome address by Dr. Pratheesh P., Head of the Department (i/c). Dr. Pratheesh P. gave a brief introduction on the objectives of the BoS meeting. Thereafter, he welcomed all experts and faculty to the meeting, and briefed the agenda of BoS meeting.

The agenda for discussion in the BoS meeting was proposed by the Head of the Department. The main items discussed in the BoS are given below:

- (a) The inclusion of programme outcome and course outcomes in the syllabus of department of geology, central university of Kerala thereof.
- (b) Consider the revised syllabus for 2021 admission
- c) Inclusion of employment oriented courses in syllabus

The details of agenda-wise discussion and the final recommendation by the BoS are given below.

Agenda 1: The inclusion of programme outcome and course outcomes in the syllabus of department of geology, central university of Kerala thereof.

Dr. Pratheesh P. has explained the Faculty Council discussion regarding inclusion of programme outcome and course outcomes in the syllabus. Then Dr. Pratheesh P. invited the Board of Studies opinion. BoS members have accepted the proposed programme outcome and course outcome. Prof. Rajneesh Bhutani opined that there should be some integration of thinking skills in the programme outcome.

Recommendation: Following a detailed discussion on the contents, the members approved the inclusion of programme outcome and course outcomes in the Department of Geology, Central University of Kerala curriculum.

Agenda 2: Consider the revised syllabus for 2021 admission.

Dr. Pratheesh P. has presented the revised syllabus for 2021 along with proposed programme structure. BoS members have accepted the proposed programme structure with some small suggestions.



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Prof. Rajneesh Bhutani pointed that Geochemistry was missing from the curriculum, which is very much essential for an earth science. After a long discussion, BoS has decided to incorporate Geochemistry as a compulsory elective paper. Prof. Prakash Narasimha has suggested the usage of 'Planetary Sciences' instead of 'planetary Geosciences'. Dr. A. Anil Kumar has suggested a title change for Oceanography as 'Oceanography and Marine Geology'. Prof. (Dr.) Rajesh Raghunath has recommended some modifications in sequence stratigraphy. Apart from this BoS has recommended a number of additions in the core course discussion.

Recommendation: After a detailed discussion on the revised syllabus, the members unanimously approved the new syllabus for MSc Geology programme in Department of Geology Central University of Kerala. All the recommendations from the experts have incorporated in the revised syllabus.

Agenda 3: Inclusion of employment oriented courses in syllabus.

Dr. Pratheesh P. has explained the feedback received from the Alumni through the Alumni Coordinator, on the inclusion of employability oriented courses. He also pointed that the faculty council has discussed the same and incorporated a new core course 'Geospatial Technology and Engineering Geology' in the proposed syllabus. BoS had a fruitful discussion on the syllabus framework of the newly inducted course.

Recommendation: Following a detailed discussion on the contents, the members approved inclusion of 'Geospatial Technology and Engineering Geology' as core course in the proposed curriculum.

After this, overall agenda discussed in the BoS were summarised by Dr. Pratheesh P. Thereafter, Dr. Sijinkumar A.V. offered the vote of thanks, which concluded the BoS meeting.

Dr. Pratheesh P.

Head (i/c), Department of Geology

**CENTRAL UNIVERSITY OF KERALA
DEPARTMENT OF GEOLOGY
M.Sc. GEOLOGY**

Course Code	EGE 5292	Semester	II
Course Title	Sedimentology and Palaeontology		
Credits	3	Type	Core

This is a participatory, experimental and employability based skill development course for Microfossils identification and natural gas exploration

Course Description

The course deals with various sedimentological and paleontological techniques like sieve, pipette analysis for grain size determination and microfossils studies. It will provide an understanding of plotting, analysis and interpretation of sedimentary data to infer depositional environment. The course also includes megascopic and microscopic identification of sedimentary rocks. In Paleontology, students will be trained in sample processing for microfossil studies and identification of various microfossil groups.

Course Outcome

By the end of the course, students are expected to be able to:

- Perform grain size analysis of sediment samples using sieving and pipetting techniques.
- Calculation of various grain size statistical parameters, plotting the data and interpretation of depositional environment of sediments.
- Identify and classify the sedimentary rocks based on hand specimen and microscopic examination of thin sections.
- Perform sampling, processing and extraction of micro fossils from sediments.
- Identification of various microfossil groups and its application in geological studies.

Course Structure

Module - 1

Sieve analysis, plotting and interpretation of data (Trask method & Folk and Ward method). Estimation of statistical parameters - mean, skewness, kurtosis and standard deviation (sorting). Pipette analysis and estimation of silt and clay content. Plotting of gravel-sand-mud and sand-silt-clay data in triangular coordinate sheets. Interpretation of depositional environment.

Module – 2

Study and description of hand specimens and thin sections of conglomerate, breccia, sandstone, limestone, silt stone and shale. Sample processing techniques and separation of microfossils from matrix and marine sediments.

Module – 3

Identification of the following types of microfossils (calcareous and siliceous): Planktonic foraminifera, Benthic foraminifera, Ostracods, Pteropods and Radiolaria. Identification and separation of important species of planktonic foraminifera.

Evaluation & Grading

Lab assessment – 10 %

Skill development (Analytical and lab skills) – 10%

Class Test – 20%

End Semester Assessment – 60%

References

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