

MINUTES OF 8th MEETING OF THE BOARD OF STUDIES IN GEOLOGY

HELD ON MARCH 24, 2018 AT 10:00 a.m.

Vide Chowgule College notice (F.133C/1777 dated 06/03/2018) a meeting of Board of Studies (BoS) in Geology was convened on March 24, 2018 at 10.00am at the Conference Room, Parvatibai Chowgule College of Arts & Science, Margao – Goa. Since the number of members present represented the Quorum, the BoS began its proceedings.

Minutes are presented in the format.

Members present:

1. Shri Harish S S Nadkarni– Chairman
2. Dr. R. A Duraiswami - Academic Council Nominee
3. Shri Allan Rodrigues– Member
4. Ms Meghana S Devli – Member
5. Mrs Magnolia Aurea Miranda – Member
6. Shri Malcom Lelis Afonso – Member Secretary
7. Shri Akshay Kelkar - Member

Members Absent with prior intimation

1. Dr. Hrishikesh Samant – Academic Council Nominee
2. Dr. (Prof) Mahender Kotha – Nominee of the Vice-Chancellor of Goa University
3. Ms Delia Cardozo – Postgraduate Meritorious Alumnus
4. Shri Kiran Sawant Dessai – Representative from the Industry/Corporate Sector

Proceedings

The Chairman welcomed the members of the Board of Studies (BoS). The Chairman introduced and explained the agenda for this meeting and Board transacted the following business:

Agenda Items:

1. To approve the revisions proposed in the syllabi of the courses in Geology at Semester II, IV and VI.
2. Any other Business (A.O.B) with the permission of the Chair.

AGENDA 1

1. To approve the revisions proposed in the syllabi of the courses in Geology at Semesters II, IV and VI.

PART A: Resolutions

- i The proposed revised syllabus of B.Sc. Geology was presented and discussed at the meeting. After the following changes the BoS approved the syllabus of the courses for Semester II, IV and VI.

- a. During the discussion on the syllabi of the courses, members of the BoS felt the need to modify and rearrange the core and elective courses to be offered. These were approved and a resolution was passed to modify the courses. The revised list of core and elective courses for the undergraduate program in Geology for Semester II, IV and VI is presented in ANNEXURE I below.

ANNEXURE I

Semester	CORE COMPULSORY		CORE ELECTIVES			
II	GEL-II.C-3A Elementary Petrology	GEL-II.C-4 Principles of Stratigraphy and Paleontology				
IV	GEL-IV.C-6 Structural Geology		GEL-IV.E-5A Engineering Geology	GEL-IV.E-6A Optical Mineralogy	GEL-IV.E-7 Natural Hazards and Management	GEL-IV.E-8 Geotectonics
VI	GEL-VI.C-8A Igneous Petrology		GEL-VI.E-13A Stratigraphy of India - Part II*	GEL-VI.E-14A Rock Structures and Deformation Microstructures	GEL-VI.E-15 Surveying and Field Geology	GEL-VI.E-16A Principles of Geophysical Exploration and Mining

- b. A resolution was passed for a change as under:

SEMESTER II

1. The Core course GEL-I.C-2 entitled "EARTH'S DYNAMICS AND TECTONICS" of Semester II was replaced by GEL-II.C-3 "ELEMENTARY PETROLOGY" of Semester I and vice-versa.

SEMESTER IV

2. The Elective course GEL-IV.E-5 "ORE GENESIS" was replaced by GEL-IV.E-5A "ENGINEERING GEOLOGY".
3. The Elective course GEL-IV.E-6 "STRATIGRAPHY OF INDIA - PART I" was replaced by a new course GEL-IV.E-6A "OPTICAL MINERALOGY".

4. **GEL-III.E-3: "ENGINEERING GEOLOGY"** (previously offered at Semester III) was replaced by **GEL-IV.E-5 "ORE GENESIS"** (previously offered at Semester IV) with revisions in the course content.

SEMESTER VI

5. The core course "SEDIMENTARY PETROLOGY" which was offered at Semester VI was shifted to Semester V. It was replaced by core course "IGNEOUS PETROLOGY".
 6. The Elective course "METAMORPHIC PETROLOGY" (previously offered at Semester VI) was replaced by "STRATIGRAPHY OF INDIA-PART II" (previously offered at Semester V).
 7. The Elective Course **GEL-VI.E-14 "ROCK DEFORMATION MICROSTRUCTURES"** was renamed as "ROCK STRUCTURES AND DEFORMATION MICROSTRUCTURES"
 8. The elective course **GEL-VI.E-16 "GEMSTONE TESTING AND EVALUATION"** was replaced "PRINCIPLES OF GEOPHYSICAL EXPLORATION AND MINING"
- c. The proposed revisions in the syllabi of all the courses offered at the undergraduate courses for Semesters II, IV and VI were presented, discussed and revised in the meeting. After incorporating the suggested changes, the BoS approved the revised syllabi of the courses for Semesters II, IV and VI given below:

Sr No	COURSE	SEMESTER	Nature of the course
1	ELEMENTARY PETROLOGY	II	CORE
2	PRINCIPLES OF STRATIGRAPHY AND PALEONTOLOGY	II	CORE
3	STRUCTURAL GEOLOGY	IV	CORE
4	ENGINEERING GEOLOGY	IV	ELECTIVE
5	OPTICAL MINERALOGY	IV	ELECTIVE

6	NATURAL HAZARDS AND MANAGEMENT	IV	ELECTIVE
7	GEOTECTONICS	IV	ELECTIVE
8	IGNEOUS PETROLOGY	VI	CORE
9	STRATIGRAPHY OF INDIA – PART II	VI	ELECTIVE
10	ROCK STRUCTURES AND DEFORMATION MICROSTRUCTURES	VI	ELECTIVE
11	SURVEYING AND FIELD GEOLOGY	VI	ELECTIVE
12	PRINCIPLES OF GEOPHYSICAL EXPLORATION AND MINING	VI	ELECTIVE

The REVISED syllabi of Semesters II, IV and VI is presented in **ANNEXURE II**

AGENDA 2: Any Other Business (AOB)

The following recommendations were made by the BoS:

- It was proposed to advise students to select along with core courses a group of elective courses depending upon which profession they would prefer in Geology. The groups proposed were

Profession	Research/ Academic	Geotechnical	Petroleum	Structural	Mining	Environmental	UPSC- Geologists/ Hydro geologist	Water Resource
Semester I	✓						✓	
Fundamentals of Mineralogy								
Earth's Dynamics and Tectonics	✓	✓	✓	✓	✓	✓	✓	
Semester II	✓						✓	
Elementary Petrology								
Principles of Stratigraphy and Paleontology	✓		✓				✓	
Semester III	✓			✓			✓	
Advanced Mineralogy and Geochemistry								
Physical Geology	✓					✓	✓	
Groundwater and Hydrogeology						✓	✓	✓
Ore Genesis				✓	✓		✓	

Marine Geology			✓			✓	✓	✓
Semester IV	✓	✓		✓	✓		✓	
Structural Geology								
Natural Hazards and Management						✓		
Optical Mineralogy	✓						✓	
Engineering Geology		✓		✓	✓			
Geotectonics	✓	✓	✓	✓	✓		✓	
Semester V	✓	✓	✓				✓	
Sedimentary Petrology								
Stratigraphy of India – Part I	✓			✓	✓		✓	
Petroleum Geology			✓					
Metamorphic Petrology	✓						✓	
Remote Sensing and Digital Image Processing		✓	✓	✓	✓	✓	✓	✓
Semester VI	✓						✓	
Igneous Petrology								
Stratigraphy of India – Part II*	✓						✓	
Principles of Geophysical Exploration and Mining		✓	✓	✓	✓		✓	
Surveying and Field Geology*	✓	✓	✓	✓	✓	✓	✓	
Rock Structures and Deformation Microstructures	✓	✓	✓	✓	✓		✓	

PART B: Important Points/ recommendations of BoS that require consideration / approval of Academic Council:

1. The revised syllabi of the following undergraduate courses (detailed in ANNEXURE II)

Sr No	COURSE	SEMESTER	Nature of the course
1	ELEMENTARY PETROLOGY	II	CORE
2	PRINCIPLES OF STRATIGRAPHY AND PALEONTOLOGY	II	CORE
3	STRUCTURAL GEOLOGY	IV	CORE
4	ENGINEERING GEOLOGY	IV	ELECTIVE

5	OPTICAL MINERALOGY	IV	ELECTIVE
6	NATURAL HAZARDS AND MANAGEMENT	IV	ELECTIVE
7	GEOTECTONICS	IV	ELECTIVE
8	IGNEOUS PETROLOGY	VI	CORE
9	STRATIGRAPHY OF INDIA – PART II	VI	ELECTIVE
10	ROCK STRUCTURES AND DEFORMATION MICROSTRUCTURES	VI	ELECTIVE
11	SURVEYING AND FIELD GEOLOGY	VI	ELECTIVE
12	PRINCIPLES OF GEOPHYSICAL EXPLORATION AND MINING	VI	ELECTIVE

2. Modification of the course structure of Semester I, III & V of the undergraduate course of Geology as given in ANNEXURE I below.

ANNEXURE I

Semester	CORE COMPULSORY		CORE ELECTIVES			
II	GEL-II.C-3A Elementary Petrology	GEL-II.C-4 Principles of Stratigraphy and Paleontology				
IV	GEL-IV.C-6 Structural Geology		GEL-IV.E-5A Engineering Geology	GEL-IV.E-6A Optical Mineralogy	GEL-IV.E-7 Natural Hazards and Management	GEL-IV.E-8 Geotectonics
VI	GEL-VI.C-8A Igneous Petrology		GEL-VI.E-13A Stratigraphy of India – Part II	GEL-VI.E-14A Rock Structures and Deformation Microstructures	GEL-VI.E-15 Surveying and Field Geology	GEL-VI.E-16A Principles of Geophysical Exploration and Mining

3. Flexibility to the Department of Geology in shuffling/modifying the core/elective courses between/of the semesters of the BSc programme.

The Chairman thanked the members of the Board of Studies in Geology for their valuable contribution and active participation in the meeting.

The meeting ended at 6:30pm with a vote of thanks to the Chair.


The foregoing minutes of the meeting were circulated by the Chairman, Board of Studies in Geology within fifteen days after the conclusion of the BoS meeting.

The following members of the Board of Studies were present for the meeting:

1. Shri Harish S S Nadkarni- Chairman
2. Dr. R. A Duraiswami - Academic Council Nominee
3. Shri Allan Rodrigues- Member
4. Ms Meghana S Devli - Member
5. Mrs Magnolia Miranda - Member
6. Shri Malcom Lelis Afonso - Member Secretary
7. Shri Akshay Kelkar - Member

Dr. (Prof) Mahender Kotha - Nominee of the Vice-Chancellor of Goa University, Dr. Hrishikesh Samant - Academic Council Nominee, Shri Kiran Sawant Dessai - Representative from the Industry/Corporate Sector and Ms Delia Cardozo - Postgraduate Meritorious Alumnus and had expressed their inability to attend the meeting.


Meghana S Devli
(Member)

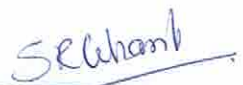

Shri Harish S S Nadkarni
(Chairman, Board of Studies in Geology)

Date: 06 April 2018

PART C: The remarks of the Dean of the Faculty:-

- a. The minutes are in order
- b. The minutes may be placed before the Academic Council with remark, if any.
- c. Important points of the minutes which need clear policy decision of the Academic Council to be recorded.

Signature of the Dean of Sciences:


Mrs. Shaila Ghanti

Date: 6/4/18