

## School of Environment and Earth Sciences Central University of Punjab, Bathinda

**Subject: Minutes of the School Board meeting held on 7<sup>th</sup> June 2022**

The meeting of the School board of Environment and Earth Sciences was held on 7th June 2022 through hybrid mode (Physical + online) at IQAC meeting room, Aryabhata Academic block, Central University of Punjab, Bathinda from 11.30 am onwards.

[Online Meeting Link: <https://meet.google.com/kid-jszg-qih>]

### Members Present:

1. Dr. Sunil Mittal, Dean, School of Environment and Earth Sciences (Chairperson)
2. Dr. Brijendra Pateriya, Director, Punjab Remote Sensing Centre (PRSC), Ludhiana  
(External Member)
3. Prof. Sushil Kansal, Professor, Department of Chemical Engineering, Panjab University, Chandigarh  
(External Member)
4. Dr. Shiv Prasad, Principal Scientist, Division of Environment Science, ICAR-IARI, New Delhi  
(External Member)
5. Prof. Rajeshwari, Professor, Department of Geography, Kurukshetra University, Haryana  
(External Member)
6. Prof. Ambrish Kumar Mahajan, Professor, School of Earth and Environmental Science, CUHP.  
(External Member)
7. Prof. V. K. Garg, School of Environment and Earth Sciences (Member)
8. Prof. Amandeep Kaur, Professor, Department of Computer Science and Technology, CUPB (Member)
9. Dr. J. K. Pattanaik, Associate Professor, Head of the Department, Department of Geology (Member)
10. Dr. Yogalakshmi, K. N., Associate Professor, Head of the Department, Department of Environmental Science & Technology (Member)
11. Dr. L. T.S. Guite, Head (In-charge) Department of Geography (Member)
12. Dr. Kiran Kumari Singh, Assistant Professor, Department of Geography, CUPB.  
(Member)
13. Dr. Puneeta Pandey, Assistant Professor, Department of Environmental Science & Technology,  
(Member)
4. Dr. K. Milankumar Sharma, Assistant Professor, Department of Geology, CUPB.

The meeting started with welcome address by chairperson and introduction of external member by Chairperson. Chairperson invited Dr. Yogalakshmi, Dr. J. K. Pattanaik and Dr. L. T. Sasang Guite in a sequence to introduce and present the progress of Department of Environmental Science & Technology, Department of Geology and Department of Geography since the last School Board meeting, respectively. After presentation, the following agendas were discussed and respective resolutions were made.

**Agenda 1:** To review and approve the course structure and syllabus of Master programs (Environment Science and Technology, Geology and Geography).

DIA Office

S. No. 5330

Date. 22/6/22

*Milankumar Sharma*  
*Ambrish Kumar Mahajan*  
*Sushil Kansal*

*Am*

*Yogalakshmi*

*Puneeta*

*Vice P*

*Sunil Mittal*

*Dr. K. Milankumar Sharma*

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**Suggestions:** The committee discussed the course structure and syllabus of each program of the school. As per discussion, the minor modifications recommended by the committee members were agreed upon.

M. Sc. Environmental Science and Technology		
S. N.	Suggestions	Action taken/Response
1	The committee unanimously approved the syllabus for the program M.Sc. in Environmental Science, no modification required.	
M.Sc. Geology		
1	To reduce number of core courses from 1 <sup>st</sup> and 2 <sup>nd</sup> semester and to add in the 3 <sup>rd</sup> semester	As per the University guidelines and keeping in the view of dissertation/internship/industrial training in the 3 <sup>rd</sup> semester less number of core courses are kept in the 3 <sup>rd</sup> semester along with research methodology, field training, and others courses related to research.
2	To keep separate core courses on mineralogy, crystallography, sedimentology, paleontology etc instead of clubbed course.	As per the university guidelines, 10 core courses (theory) shall be offered in the M.Sc. Program (Science stream). Therefore, few related courses are clubbed together and syllabuses are prepared as per M.Sc. standard without much repetition of B.Sc. syllabi.
MA/M.Sc. Geography Program		
1	To swipe GEO.563 'Geostatistical Techniques and Analysis' which is a core paper, with elective paper GEO.568 Regional Development and Planning.	Keeping in view of the importance of Geostatistical Techniques and Analysis knowledge for student as a core paper the suggestion could not be incorporated. However, the suggestion would be taken for consideration in future.
2	To change the name of GEO.521 & GEO.522 Geographical Information System & GNSS to Geographical Information System & GIS	The suggestion was suitably incorporated

**Resolve:**

1. The committee unanimously approves updated course structure and syllabus of M.Sc. Environmental Science and Technology, M.Sc. Geology, M.Sc. Geography and M.A. Geography programs for the academic session 2022-2024 and onward as recommended by the Board of Studies.
2. The committee endorsed that course codes/title may be adopted as per the university norms.
3. The members were informed that due to COVID-19 pandemic, semester timings in the university UGC MOOC courses are not in cohesion. In University the semester started in April 2022 whereas



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MOOCs are offered in January-June and July-December sessions. Therefore, students are facing problems opting for the MOOC in the middle of a running semester. Keeping in view the mismatch of semester and offer of MOOC course, the committee recommended that the students should be given the flexibility to opt MOOC course at any time of the semester or in any semester and credit may be adjusted in the corresponding semester accordingly.

**Agenda 2:** To review and approve the course structure and syllabus of the Ph.D. program (Environmental Science and Technology, Geology and Geography).

**Suggestions:** The committee discussed the course structure and syllabus of each program of the school. As per discussion, the minor modifications recommended by the committee members were agreed upon.

Ph.D. Environmental Science and Technology		
S. N.	Suggestions	Action taken/Response
1	The committee suggested to include the word 'practical' in the title of courses EVS 709 and EVS 710	The suggestion was incorporated and the title of the courses were modified accordingly EVS 709 Instrumental Methods of Analysis – I (Practical) EVS 710 Instrumental Methods of Analysis – II (Practical)
2	To increase the credits of the course EVS.701 Research Methodology to 4 credits as per UGC regulations	As per the UGC regulation 2016, "A minimum of four credits shall be assigned to one or more courses on Research methodology which could cover areas such as qualitative methods, computer applications, research ethics and review of published research in the relevant field, training, field work, etc.", the 4 credit criteria is fulfilled in EVS.701 Research Methodology (2 credits) and EVS.751 Research and Publication Ethics (2credits).
Ph.D. Geology		
1	The committee members were satisfied with the Ph.D. syllabus and so no modification was required	
Ph.D. Geography		
1	The committee members were satisfied with the Ph.D. syllabus and so no modification was required	

**Resolve:** The committee unanimously approves Ph.D. course structure and syllabus (with the inclusion of UGC recommended course) of Ph.D. Environmental Science and Technology, Ph.D. Geology and Ph.D. Geography for academic session 2022-2024 and onward as recommended by Board of Studies.

*Handwritten signatures:*  
K. Anil Kumar  
Shabaz Younis

*Handwritten signatures:*  
Ajay  
Gaur

*Handwritten signature:*  
Rabindra

*Handwritten signature:*  
Punita  
Sandeep Mittal

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**Agenda 3:** To review and approve the course structure and syllabus of PG diploma in Geoinformatics.

**Resolve:** The committee unanimously recommends and approve the course structure and syllabus of PG diploma in Geoinformatics for academic session 2022-2023 and onwards as recommended by Board of Studies.

**Agenda 4:** To discuss and recommend the financial requirement for fieldwork/ industrial /study tour.

**Resolve:** The matter was discussed in detail. All the committee members were of the unanimous view that field visit, industrial visit and study tour are essential aspects of the curriculum in these subjects. Hence, the committee recommended the field work/industrial/ study tour as per the requirement of the respective department and suggested a separate budget of Rs. 3.5 lakhs (for each batch) for Geology department, and 0.5 lakhs each for department of Environmental Science and Technology, and Geography.

**Agenda 5:** To discuss and recommend the suitable alternate method that may be adopted for the curriculum fieldwork/ industrial visit/field survey/study tour (credit course) etc. during a pandemic situation like COVID – 19.

**Resolve:** The committee discussed the matter and recommended that during a pandemic situation like COVID-19, or in a similar situation in future, credit course like fieldwork/ industrial visit/field survey/study tour etc. may be converted to report writing/review/survey work with seminar presentation to evaluate the course. However, this should not be practiced in normal conditions. Further, as per discussion, the committee also recommends: flexibility may be given to conduct the fieldwork/ industrial visit/field survey/study tour (credit course) etc. any time during the allotted semester or prior to that semester as per the possibility, or if required this course may shift to the next semester.

**Agenda 6:** To discuss and recommend the equivalency of PhD coursework/scientist trainee courses offered by other institute/organizations for joint PhD program and for signing MOU.

**Resolve:** The committee discussed the matter and recommended that for joint PhD programs after MOU, credited PhD coursework/scientist trainee courses offered by the second party (other institute/organizations) shall be considered towards the PhD coursework. However, if the candidate(s) has not obtained minimum total credit required for PhD coursework as per the UGC regulation 2016, and/or course on research methodology, then he/she needs to complete these

*B. Nihal Kumar*  
*Yash*  
*VS*

*Hatish*  
*Yash*

*My*

*Ques*

*Puneeta*

*Sunil Mittal*

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courses/credits from the concerned department/school which may be offered through physical/online mode.

Meeting ended with Vote of Thanks from Dr. Yogalakshmi followed by chairperson.

*Q. Milankumar Sharma*

Dr. K. Milankumar Sharma, Assistant Professor, Department of Geology, CUP

*Puneeta*

Dr. Puneeta Pandey, Assistant Professor, Department of Environmental Science & Technology, CUP

*Kiran*

Dr. Kiran Kumari Singh, Assistant Professor, Department of Geography, CUP

*Amg*

Dr. L. T.S. Guite, Head (In-charge) Department of Geography, CUP

*Yog*

Dr. Yogalakshmi, K. N., Associate Professor, Head, Department of Environmental Science & Technology, CUP

*J.K. Pattanaik*

Dr. J. K. Pattanaik, Associate Professor, Head, Department of Geology, CUP

*Amdeep*

Prof. Amandeep Kaur, Professor, Department of Computer Science and Technology, CUP

*V.K. Garg*

Prof. V. K. Garg, Department of Environmental Science & Technology, CUP

*Approved online on mail*

Prof. Ambrish Kumar Mahajan, Professor, School of Earth and Environmental Science, Central University of Himachal Pradesh (CUHP)

*Approved via e-mail*

Prof. Rajeshwari, Professor, Department of Geography, Kurukshetra University, Haryana

*Approved via e-mail*

Dr. Shiv Prasad, Principal Scientist, Division of Environment Science, ICAR-IARI, New Delhi

*Approved via e-mail*

Prof. Sushil Kansal, Professor, Department of Chemical Engineering, Panjab University, Chandigarh

*Approved via e-mail*

Dr. Brijendra Pateriya, Director, Punjab Remote Sensing Centre (PRSC), Ludhiana

*Sunil Mittal*  
*15/6/22*

Dr. Sunil Mittal, Dean, School of Environment and Earth Sciences, CUP, Chairperson

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