

School of Earth & Environmental Sciences
Department of Environmental Sciences
Central University of Himachal Pradesh,
Temporary Academic Block Shahpur
Full Course Catalogue

Approved by Board of studies until 7th July, 2020

| Course Code | Name of the course | Credit | Level | Prerequisite | Co – requisites |
|-------------|--|--------|-------|--------------|-----------------|
| ENV121 | Basics of Environmental Studies | 2 | 1 | | For BSC |
| ENV122 | Environmental Issues and Policies | 2 | 1 | | For BSC |
| ENV 401 | Introduction to Ecology | 2 | 4 | | |
| ENV 402 | Introduction to Earth Processing | 2 | 4 | | |
| ENV 402a | Introduction to Earth Processes | 2 | 4 | | |
| ENV 403 | Environmental Chemistry | 4 | 4 | | ENV 402 |
| ENV 404 | Energy and Environment | 2 | 4 | | |
| ENV 405 | Mountain Ecology | 4 | 4 | | ENV 401 |
| ENV 406 | Water resources and water pollution | 2 | 4 | | ENV 402 |
| ENV 407 | Soil Sciences and soil pollution | 2 | 4 | | |
| ENV 408 | Biodiversity and wildlife Management | 2 | 4 | | ENV 401 |
| ENV 409 | Environmental Microbiology | 2 | 4 | | ENV 410 |
| ENV 410 | Environmental Biotechnology | 2 | 4 | ENV 403 | ENV 401/409/411 |
| ENV 411 | Waste Management | 2 | 4 | | ENV 407 |
| ENV 412 | Analytical Techniques | 2 | 4 | | |
| ENV 413 | Natural Resource Conservation | 4 | 4 | | ENV 401 |
| ENV 414 | Computer Applications and Statistical Techniques | 4 | 4 | | ENV 423 |
| ENV 415 | Application of Remote Sensing & GIS in Natural | 4 | 4 | | ENV 402A |

| | | | | | |
|---------|--|---|---|--|-------------|
| | Resource Management | | | | |
| ENV 416 | Introductory Environmental Economics | 2 | 4 | | |
| ENV 417 | Radiation and Environment | 2 | 4 | | ENV 402/403 |
| ENV 418 | Ecology Lab | 2 | 4 | | ENV 402/517 |
| ENV 419 | Geosciences Lab | 2 | 4 | | ENV 401/402 |
| ENV 420 | Fundamentals of Mountain Ecology | 2 | 4 | | |
| ENV 421 | Municipal Solid Waste Management | 2 | 4 | | ENV 411 |
| ENV 422 | Basics of Natural Resource Conservation | 2 | 4 | | ENV 401 |
| ENV 423 | Basics of Computer Applications and Statistical Techniques | 2 | 4 | | ENV 401/402 |
| ENV 424 | Fundamentals of Remote Sensing | 2 | 4 | | ENV 401/402 |
| ENV 425 | Application of Remote Sensing & GIS | 2 | 4 | | ENV 402 |
| ENV 427 | Life cycle and Waste Projection | 2 | 4 | | ENV 411/413 |
| ENV 428 | Himalayan Geology | 2 | 4 | | |
| ENV 429 | Himalayan Ecology | 2 | 4 | | |
| ENV 430 | Environmental Biology | 2 | 4 | | |
| ENV431 | Environmental Data Analysis | 4 | 4 | | |
| ENV432 | Introduction to Statistical Techniques | 4 | 4 | | |
| ENV433 | Computer applications in Environmental Sciences | 4 | 4 | | |
| ENV434 | Fundamentals of Ecology and Environment | 4 | 4 | | |
| ENV435 | Environmental Sciences Laboratory – I | 2 | 4 | | |
| ENV436 | Environmental Sciences Laboratory – II | 2 | 4 | | |
| ENV437 | Earthquake awareness | 2 | 4 | | |

| | | | | | |
|---------|--|---|---|-------------|---------|
| ENV 438 | Environment and Society | 2 | 4 | | |
| ENV 439 | Principles of Biodiversity and Wildlife Conservation | 2 | 4 | | |
| ENV 440 | Microbes and sustainable development | 2 | 4 | | |
| ENV 441 | Water resource Conservation in Hilly Region | 2 | 4 | | |
| ENV 442 | Adaptation of Climate change | 2 | 4 | | |
| ENV 443 | Basics of climate change | 2 | 4 | | |
| ENV 444 | Environmental Geo Science Laboratory | 2 | | | |
| ENV 445 | Environmental Chemistry Laboratory | 2 | | | |
| ENV 501 | Environment Pollution and Human Health | 2 | 5 | ENV 406/407 | ENV 417 |
| ENV 502 | Natural Hazard and Disaster Management | 4 | 5 | | |
| ENV 503 | Environmental Legislation National and International | 2 | 5 | | |
| ENV 504 | Field work and Dissertation | 4 | 5 | | |
| ENV 505 | Ecological Engineering | 4 | 5 | | |
| ENV 506 | Environmental Movements | 4 | 5 | | |
| ENV 507 | Traditional Knowledge and Environmental conservation | 4 | 5 | | |
| ENV 508 | Environmental Ethics | 2 | 5 | | |
| ENV 509 | Glaciology | 4 | 5 | ENV 420 | |
| ENV 510 | Applications of Mathematical Modelling & Ground Water Management | 4 | 5 | | |
| ENV 511 | Rain Water Harvesting and Artificial Recharge in Hilly Region | 4 | 5 | | |
| ENV 512 | Documentation and | 4 | 5 | | |

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|---------|--|---|---|-------------|-------------|
| | Management of Invasive Species | | | | |
| ENV 513 | Inventorization of species | 4 | 5 | | |
| ENV 514 | Energy uses and its implications for H.P. State | 4 | 5 | | |
| ENV 515 | International Environmental Policies | 4 | 5 | ENV 406/407 | |
| ENV 516 | Atmospheric Science | 2 | 5 | | |
| ENV 517 | Earth System Science | 2 | 5 | ENV 402 | |
| ENV 518 | Environmental Technology and Governance | 2 | 5 | | |
| ENV 519 | Biogeography | 2 | 5 | | |
| ENV 520 | Geo Informatics | 2 | 5 | | |
| ENV 521 | Geo Engineering | 2 | 5 | | |
| ENV 522 | Ecosystem Diversity | 4 | 5 | ENV 401/408 | ENV 512 |
| ENV 523 | Toxic and Hazardous Waste Management | 4 | 5 | ENV 411 | |
| ENV 524 | Environmental Impact Assessment | 2 | 5 | | |
| ENV 525 | Environmental Geochemistry | 2 | 5 | | |
| ENV 526 | Soil Fertility and farmland Geology | 2 | 5 | | |
| ENV 527 | Environmental Toxicology | 2 | 5 | ENV 411 | ENV 523 |
| ENV 528 | Nanotechniques and Environment | 2 | 5 | ENV 412 | ENV 523/410 |
| ENV 529 | Green Chemistry and Environment | 2 | 5 | ENV 412 | |
| ENV 530 | Analytical Techniques for Air, Water, Soil and Plant Lab | 4 | 5 | ENV 412 | |
| ENV 531 | Toxicology lab | 2 | 5 | ENV 412 | |
| ENV 532 | Industrial Training/Field Work/project | 4 | 5 | | |
| ENV 533 | Micrometeorology and Plant Productivity | 2 | 5 | ENV 516 | |
| ENV 534 | Green Technologies and Market | 2 | 5 | ENV 529 | |
| ENV 535 | Natural Hazard | 2 | 5 | ENV 402/517 | |
| ENV 536 | Disaster Management | 2 | 5 | ENV 402/517 | ENV 535 |

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|---------|---|---|---|-----------------|---------|
| ENV 537 | Environmental Engineering | 2 | 5 | | |
| ENV 538 | Impacts of Environmental Movements | 2 | 5 | | |
| ENV 539 | Indigenous Traditional Knowledge and Environmental conservation | 2 | 5 | | |
| ENV 540 | Water Harvesting in Hilly Regions | 2 | 5 | | ENV 510 |
| ENV 541 | Techniques of Artificial Water Recharge in Hilly Regions | 2 | 5 | | |
| ENV 542 | Documentation of Exotic Species | 2 | 5 | | |
| ENV 543 | Documentation of Native Species | 2 | 5 | | |
| ENV 544 | Methods and Technology of Inventorization of species | 2 | 5 | | |
| ENV 545 | Fundamentals of Energy Budgeting | 2 | 5 | | |
| ENV 546 | Renewable and Non-Renewable Energy Potential In HP State | 2 | 5 | | |
| ENV 547 | Contemporary Environmental Issues | 2 | 5 | ENV 406/407/417 | |
| ENV 548 | Introduction to Environmental Impact Assessment | 2 | 5 | ENV 402/517/ | |
| ENV 549 | Advances in Environmental Impact Assessment | 2 | 5 | | |
| ENV 550 | Microbial Ecology | 2 | 5 | | |
| ENV 551 | Ecosystem Dynamics | 2 | 5 | | |
| ENV552 | Analytical Technique (Physical Science) | 2 | 5 | | |
| ENV 553 | Environmental Thermodynamics | 2 | 5 | ENV 403 | |
| ENV 554 | Environmental Conservation and sustainable development | 4 | 5 | | |
| ENV 555 | Emerging ethical issues for Nano Technology in Environment | 2 | 5 | | ENV 528 |

| | | | | | |
|---------|---|---|---|---------------------------------|---------|
| ENV 556 | Carbon cycling and its management in the environment | 2 | 5 | ENV 403 | |
| ENV 557 | Bio-resources and Environmental Biotechnology | 4 | 5 | | |
| ENV 558 | Applied Microbiology | 4 | 5 | | |
| ENV 559 | Environmental Geophysics | 2 | 5 | ENV 402/517/521/424/425/535/536 | ENV 521 |
| ENV 560 | Meteorology and Climatology | 4 | 5 | | |
| ENV 561 | Science of Climate Change | 4 | 5 | ENV 402/560/517/ | |
| ENV 562 | Analytical Techniques (Biological Sciences) | 2 | 5 | | |
| ENV 563 | Earth Science and its Processes | 4 | 5 | | |
| ENV564 | Near Surface Geophysics | 4 | 5 | | |
| ENV565 | Sustainable Technologies | 4 | 5 | ENV534 | |
| ENV566 | Introduction to Marine Environment | 4 | 5 | | |
| ENV567 | Environmental Monitoring and assessment | 4 | 5 | | |
| ENV568 | Environmental Pollution and Environmental Engineering | 4 | 5 | | |
| ENV569 | Environmental Pollution and Health issues | 4 | 5 | | |
| ENV570 | Microbial Technology and Sustainable Development | 4 | 5 | | |
| ENV571 | Remote sensing and GIS lab | 2 | 5 | | |
| ENV572 | Land use planning | 2 | 5 | | |
| ENV573 | Water resource management | 2 | 5 | | |
| ENV574 | Bio Analytical Techniques | 4 | 5 | | |
| ENV575 | MSC Dissertation | 6 | 5 | | |
| ENV576 | Introduction to environmental system analysis | 2 | 5 | | |
| ENV577 | Carbon management | 2 | 5 | | |
| ENV578 | Introduction to | 2 | 5 | | |

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|---------|---|----|---|---|---------|
| | Glaciology | | | | |
| ENV 579 | Recent trends in Environmental Biotechnology | 2 | 5 | | |
| ENV 580 | Recent trends in Glaciology | 2 | 5 | | |
| ENV 581 | Methods in Scientific Research | 4 | 5 | | |
| ENV 582 | Atmospheric Chemistry and Physics | 4 | | | |
| ENV 583 | Soil Science | 2 | | | |
| ENV 584 | Oceanography | 4 | | | |
| ENV 585 | Fundamentals of Applied Environmental Microbiology | 4 | | | |
| ENV 586 | Nano-Techniques and Applications in Environment | 4 | | | |
| ENV 587 | Regional (Indian) Environmental Policies | 4 | | | |
| ENV 588 | Advanced Environmental Nanotechnology | | | To be introduced (10 th BoS) | |
| ENV 599 | Dissertation (M.Phil.) | 20 | 6 | | |
| ENV 601 | Geochemistry – Biogeochemical Cycles | 4 | 6 | | |
| ENV 602 | Spectroscopy and Chromatography Techniques | 4 | 6 | ENV 412 | ENV 403 |
| ENV 603 | Advances in ecology and environment | 4 | 6 | | |
| ENV 604 | Earth Systems Dynamics and Processes | 4 | 6 | | |
| ENV 605 | Traditional and Contemporary Waste Treatment technologies | 4 | 6 | ENV 41 | ENV 523 |
| ENV 606 | Geomorphology | 4 | 6 | | |
| ENV 607 | Site amplification | 2 | 6 | | |
| ENV 608 | Seismology | 2 | 6 | | |
| ENV 609 | Environmental Xenobiotics- source, distribution and health effect | 4 | 6 | | |
| ENV 610 | Applied | 4 | 6 | | |

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|---------|--|----|---|--|--|
| | biotechnology and Bioremediation | | | | |
| ENV 611 | Atmospheric Chemistry | 2 | 6 | | |
| ENV 612 | Application of GPR | 4 | 6 | | |
| ENV 613 | Atmospheric Physics | 2 | 6 | | |
| ENV 614 | Advanced Waste Management Techniques | 2 | | | |
| ENV 615 | Advance Microbial Technologies | 2 | | | |
| ENV 616 | Advance Bioremediation Techniques | 2 | | | |
| ENV 617 | Research Methodologies in Natural Sciences | 4 | | | |
| ENV 618 | Research Ethics | 2 | | | |
| ENV 699 | Thesis (Ph.D.) | 60 | 6 | | |

Central University of Himachal Pradesh
School of Earth & Environmental Sciences

Minutes



FIFTH SCHOOL BOARD MEETING
TO BE HELD ON December 14, 2016 At 2.30 P. M.

Venue: Committee Room, Temporary Academic Block,
CENTRAL UNIVERSITY OF HIMACHAL PRADESH,
Shahpur , District Kangra(HP)

Prof. J. P. Tandon

[Signature]

[Signature]
14/12/2016

[Signature]
14/12/2016

[Signature]

AGENDA-INDEX

| Agenda Item No. | PARTICULARS | Information |
|-----------------|---|-------------|
| ENV-SB-5/16-1 | To place before the School Board the minutes of the fifth meeting of Board of Studies | Annexure -A |
| ENV-SB-5/16-2 | To place before the School Board the minutes of the sixth meeting of Board of Studies | Annexure -B |
| ENV-SB-5/16-4 | Any other item with permission of the chair. | |

~~Monday~~
14/12/16.

14/12/16

14.12.16

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MINUTES

The 5th School Board (SB) meeting of School of Earth and Environmental Science was held on 14th December, 2016 at 2.30 PM at Central University of Himachal Pradesh, Temporary Academic Block (TAB), Shahpur. The following were present:

| | | |
|----|--|------------------------|
| 1. | Dr. Deepak Pant Dean, School of Earth and Environmental Sciences Head, Department of Environmental Sciences, | CONVENER & CHAIRMAN |
| 2. | Prof. A K Mahajan , Department of Environmental Sciences, Central University of Himachal Pradesh. | PROFESSOR IN SCHOOL |
| 3. | Prof. Raj kumar Rampal Jammu University, Jammu | SUBJECT EXPERT |
| 4. | Dr Sunil Dhar Government College, Dharamshala | SUBJECT EXPERT |
| 5. | Dr. Mushtaq Ahmed Associate Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | MEMBER |
| 6. | Dr. Ankit Tandon Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | MEMBER |

1. The following members could not attend the meeting due to their prior commitments and unavoidable reasons.

| | | |
|----|---|---------------------|
| 1. | Prof. H R Sharma DSW, Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) |
| 2. | Prof R P Tiwari , VC Central University of Sagar (M P) | SUBJECT EXPERT |
| 3. | Prof Y S Verma , PVC Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) |

2. Dr Deepak Pant, Dean, School of Earth and Environmental Sciences (Convener & Chairman) welcomed all the members and thanked them for being available for attending this meeting.

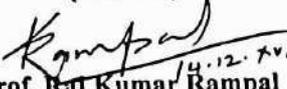
ENV-SB-5/16-1 To place before the School Board the minutes of the fifth meeting of Board of Studies

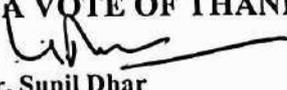
Discussed and approved

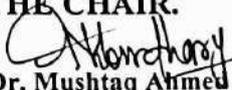
ENV-SB-5/16-2 To place before the School Board the minutes of the sixth meeting of Board of Studies

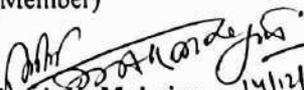
Discussed and approved

THE MEETING ENDED WITH A VOTE OF THANKS TO THE CHAIR.


Dr. Ankit Tandon
(Member)

Prof. Raj Kumar Rampal
(Subject Expert)


Dr. Sunil Dhar
(Member)


Dr. Mushtaq Ahmed
(Member)


Prof. Ambrish K. Mahajan
(Member)


Dr. Deepak Pant
(Chairman and Convener)

हिमाचल प्रदेश केंद्रीय विश्वविद्यालय

Central University of Himachal Pradesh

(Established under Central Universities Act 2009)

PO Box no. 21, Dharamshala, Distt. Kangra, Himachal Pradesh- 176215

(Temporary Academic Block, Shahpur)



MINUTES

**SIXTH BOARD OF STUDIES MEETING
HELD ON 14TH DECEMBER, 2016 AT 10.30 AM.**

**Venue: Committee Room, Temporary Academic Block,
CENTRAL UNIVERSITY OF HIMACHAL PRADESH,
Shahpur , District Kangra(HP)**



(478) (2/06)

हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh
(Established under Central Universities Act 2009)
PO Box no. 21, Dharamshala, Distt. Kangra, Himachal Pradesh- 176215
(Temporary Academic Block, Shahpur)

File No. EES/1-12/DRC/CUHP/15/

Dated: 14th December, 2016

MINUTES

1. The 6th Board of Studies (BOS) meeting of Department of Environmental Sciences was held on 14th December, 2016 at 10.30 AM at Central University of Himachal Pradesh, Temporary Academic Block (TAB), Shahpur. The following were present:

| | | |
|----|--|--------------------------------|
| 1. | Dr. Deepak Pant , Associate Professor & Head, Department of Environmental Sciences, Dean, School of Earth and Environmental Sciences | CONVENER & CHAIRMAN |
| 2. | Prof. H. Tombi Singh Ex-Vice Chancellor, Manipur University, Imphal (Manipur) | SUBJECT EXPERT |
| 3. | Dr. Adarsh Pal Vig. Department of Botanical and Environmental Sciences, GNDU, Amritsar | SUBJECT EXPERT |
| 4. | Prof. Ambrish Kumar Mahajan , Professor, Department of Environmental Sciences, Central University of Himachal Pradesh | MEMBER |
| 5. | Dr. Mushtaq Ahmed Associate Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | MEMBER |
| 6. | Dr. Ankit Tandon Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | MEMBER |
| 7. | Dr. Vikram Singh , Assistant Professor, Centre for Computational Biology & Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) |

The following member could not attend the meeting due to prior assignments and was granted leave of absence:

| | | |
|----|--|----------------------------|
| 1. | Dr. O.S.K.S. Sastri , Associate Professor & Dean, School of Physical and Material Sciences, Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) |
|----|--|----------------------------|

2. Dr. Deepak Pant, Dean, School of Earth and Environmental Sciences (Convener & Chairman of the BOS) welcomed all the members and thanked them for being available for attending this meeting.

THEREAFTER, THE AGENDA ITEMS WERE TAKEN UP AS UNDER:

ITEM NO: ENV-BOS-6/15-1

Confirmation of the Minutes of the 5th Meeting of the Board of Studies held on 22nd February, 2016.

The Minutes of 5th Meeting of the Board of Studies (BOS) held on 22nd February, 2016 were confirmed.

ITEM NO: ENV-BOS-6/15-2.

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TABLE-I: Revised Curricular Framework" for M.Sc. in Environmental Sciences based on Choice Based Credit System (CBCS) (Year 2016)

| Semester | Credits | Core- Compulsory | Credits | Credits | Core- Open | Credits | |
|----------|---------|---|---------|----------|--|---|---------|
| I | 16 | ENV 402a – Introduction to Earth Processes | 2 | | | | |
| | | ENV 403 - Environmental Chemistry | 4 | | | | |
| | | ENV 434 - Fundamentals of Ecology and Environment | 4 | | | | |
| | | ENV 516 - Atmospheric Science | 2 | | | | |
| | | ENV 435 - Environmental Sciences Laboratory – I | 2 | | | | |
| | | ENV 404 - Energy and Environment | 2 | | | | |
| II | 12 | ENV 408 - Biodiversity and Wild Life Management | 2 | 4 | ENV 523 - Toxic and Hazardous Waste Management | 4 | |
| | | ENV 432 - Introduction to Statistical Techniques | 4 | | ENV 569 - Environmental Pollution and Health issues | 4 | |
| | | ENV 424 – Fundamentals of Remote Sensing | 2 | | ENV 535 - Natural Hazards | 2 | |
| | | ENV 422- Basics of Natural Resource Conservation | 2 | | ENV 525 - Environmental Geochemistry | 2 | |
| | | ENV 436 - Environmental Sciences Laboratory – II | 2 | | ENV 553 - Environmental Thermodynamics | 2 | |
| | | | | | ENV 503 – Environmental Legislation: National & International | 2 | |
| III | 4 | ENV 524 - Environmental Impact Assessment | 2 | 4 | ENV 508 – Environmental Ethics | 2 | |
| | | ENV 571 - Remote Sensing and GIS Lab | 2 | | ENV 572 - Land Use Planning | 2 | |
| | | | | | ENV 573 – Water Resource Management | 2 | |
| | | | | | ENV 546 Renewable and Non renewable Energy potential in HP State | 2 | |
| IV | 8 | ENV 575 – M.Sc. Dissertation | 6 | 4 | ENV 557 - Bio-resources and Environmental Biotechnology | 4 | |
| | | ENV 412- Analytical Technique | 2 | | ENV 537 – Environmental Engineering | 2 | |
| | | | | | ENV 421 – Municipal Solid Waste Management | 2 | |
| | | | | | ENV 428 – Himalayan Geology | 2 | |
| | | | | | ENV 574 - Bio Analytical Techniques | 4 | |
| | | ENV 561 – Science of Climate Change | 2 | | | | |
| Semester | Credits | Elective (Specialization) | Credits | Semester | Credits | Elective (Specialization) | Credits |
| III | 8 | ENV 559 - Environmental Geophysics | 2 | IV | 8 | ENV 521 – Geo Engineering | 2 |
| | | ENV 411 - Waste Management | 2 | | | ENV 577 - Carbon Management | 2 |
| | | ENV 550 – Microbial Ecology | 2 | | | ENV 409 – Environmental Microbiology | 2 |
| | | ENV 611 – Atmospheric Chemistry | 2 | | | ENV 613 – Atmospheric Physics | 2 |
| | | ENV 410 – Environmental Biotechnology | 2 | | | ENV 579 - Recent Trends in Environmental Biotechnology | 2 |
| | | ENV 578- Introduction to Glaciology | 2 | | | ENV 580 - Recent Trends in Glaciology | 2 |
| | | ENV 530 Green Chemistry and Environment | 2 | | | ENV 555 Emerging Ethical Issues for Nanotechnology in Environment | 2 |

To place before the BOS the revised Curricular Framework" for M.Sc. in Environmental Sciences based on Choice Based Credit System (CBCS) (Year 2016-17) adopted by the University in its 13th Academic Council Meeting held on 15th June, 2015 vide ITEM NO: 13.10 (T) (Table-I).

(200) (174)

The BOS discussed the revised Curricular Framework (based on Choice Based Credit System) (CBCS) and approved as shown in table-I below.

ITEM NO: ENV-BOS-6/15-3.

To place before the BOS "Curricular Framework" of Human Making and Skill Development courses to be offered by the Department of Environmental Sciences based on Choice Based Credit System (CBCS) adopted by the University in its 13th Academic Council Meeting held on 15th June, 2015 vide ITEM NO: 13.10 (T).

Table 2: List of Foundation Courses (Human Making and Skill Development)

Under Graduate Level

| S. No. | Name of the Faculty Member | Course Name for Human Making | Course Code |
|--------|----------------------------|------------------------------------|-------------|
| 1. | Dr. Anurag Linda | Basics of Environmental Studies* | ENV 121 |
| 2. | Dr. Ankit Tandon | Environmental Issues and Policies* | ENV 122 |

Post Graduate Level

| S. No. | Name of the Faculty Member | Course Name for Human Making | Course Code |
|--------|----------------------------|---|-------------|
| 1. | Prof. A. K. Mahajan | Earthquake Awareness* | ENV-437 |
| 2. | Dr. Deepak Pant | Carbon Management | ENV577 |
| 3. | Dr. Mushtaq Ahmed | Principles of Biodiversity and Wildlife Conservation* | ENV439 |
| 4. | Dr. S. Chatterjee | Environmental Ethics | ENV 508 |
| 5. | Dr. Dilbagh Singh | Energy and Environment | ENV 404 |

| S. No. | Name of the Faculty Member | Course Name for Skill Development | Course Code |
|--------|----------------------------|--|-------------|
| 1. | Prof. A. K. Mahajan | Disaster Management | ENV-536 |
| 2. | Dr. Deepak Pant | Waste Management | ENV - 411 |
| 3. | Dr. Mushtaq Ahmed | Microbes and Sustainable Development* | ENV440 |
| 4. | Dr. Ankit Tandon | Basics of Climate Change* | ENV 443 |
| 5. | Dr. S. Chatterjee | Contemporary Environmental Issues | ENV 547 |
| 6. | Dr. Anurag Linda | Water Resource Conservation in Hilly Region* | ENV441 |
| 7. | Dr. Dilbagh Singh | Nano-techniques and Environment | ENV 528 |

† For Under Graduate Level

* Courses to be introduced

The BOS discussed the list of courses as given in table 2 above and approved the same.

ITEM NO: ENV-BOS-6/15-4

To approve the list of paper setters for the End-Semester examinations for the Department of Environmental Sciences as adopted by the University in its 16th Academic Council Meeting held on 65th June, 2016 vide ITEM NO: 16.11 vis-à-vis Ordinance 30.

(Signatures)

(Signature)

Clause 12 (b) and 22 (a) of Ordinance 30 (approved/amended vide item No. 16.11 of the minutes of 16th Academic Council) of the Central University of Himachal Pradesh are reproduced below:

1. Clause 12 (b), "The question paper for End-Semester examination of a course shall be set and evaluated by the external examiner".

2. Clause 22 (a), "For selecting the paper setters for the End-Semester examinations, the Controller of Examinations shall seek a panel of at least five paper setters / evaluators for each course from the Head / Director of the department / centre as approved by the Board of Studies.

Provided further that the concerned faculty members shall submit a list of examiners (who are not members of Board of Studies and School Board) to the Head / Director of Department / Centre who

in turn will get the examiners approved from the Board of Studies".

Accordingly, each faculty member of the Department, teaching a particular course was requested to provide the list of paper setters for the End-Semester examinations for that course. The compiled list for approval by the BOS is placed as in Table 3 below.

Table 3: LIST OF EXTERNAL PAPER SETTERS (ORDINANCE 30)

PROF. AMBRISH KUMAR MAHAJAN

| S.No | Name | Address | Papers to be set |
|------|------------------------|---|---|
| 1. | Prof M.L. Sharma | Department of Earth Engineering, IITR, Roorkee, Sharma.mukat@gmail.com | ENV 564 (Near Surface Geophysics) and ENV 559 (Environmental Geophysics) |
| 2. | Prof RVS Yadav, | Kurukshetra University, email :rbsybhu@rediffmail.com | |
| 3. | Prof. Dr Aanad Joshi, | IIT, Roorkee, email : anandfes@iitr.ac.in | |
| 4. | Prof. S.S. Teotia, | Kurukshetra University, email : teotia_ss@rediffmail.com | |
| 5. | Dr S.C. Gupta, | Department of Earth engineering, IITR, Roorkee, email : scgeqfeq@iitr.ac.in | |
| 6. | Dr Gautam Rawat, | Scientist E , WIHG, Dehradun, email : rawatg@wihg.res.in | |
| 1. | Prof M.L. Sharma, | Department of Earth Engineering, IITR, Roorkee, email: Sharma.mukat@gmail.com | Disaster Management (ENV 536) |
| 2. | Prof. Chandan Gosh, | National Institute of Disaster Managements, email: cghosh24@gmail.com | |
| 3. | Prof. Sandeep Pandita, | Department of Geology, Jammu University, email: sandeep.pandita@gmail.com | |
| 4. | Dr O.P. Mishra, | Ex- Director SAARC, Disaster Management, Ministry of Earth Sciences, email : opmishra2010.saarc@gmail.com | |
| 5. | Dr Naresh Dhatwalia, | WIHG, Dehradun, nkd@wihg.res.in | |
| 6. | Dr. Jitender Kaur | Department of Botanical and Environmental Sciences, GNDU, Amritsar | |
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| 5. | Dr. Amit Prakash | Department of Environmental Science Assam Tezpur University, Napaam, Sonitpur, Assam-784 028 amitprakash.amit@gmail.com | | |
| 1. | Dr. Shweta Yadav | Department of Environmental Sciences Rahya Suchani, Samba District, Bagla, Jammu and Kashmir 181143 shwetayadav.jnu@gmail.com | ENV 422 – Basics of | |
| 2. | Dr. Shruti | Amity School of Earth and Environmental Sciences, Amity Education Valley, Gurgaon (Manesar) – 122 413, Haryana sakshishruti@gmail.com | | |

Ami

Shweta

Chander Singh

Alok

Rakesh

Shruti

| | | | |
|----|---------------------------|--|---------------------------------------|
| 3. | Dr. Pottakkal George Jose | National Institute of Hydrology, Western Himalayan Regional Centre, Satwari, Opp. Military Hospital, Jammu Cantt - 180 003 (J & K) jose.pottakkal@gmail.com | Natural Resource Conservation |
| 4. | Dr. Alok Kumar | Department of Environmental Science, Central University of Rajasthan, NH-8, Bandar Sindri, Ajmer-305817, Rajasthan alok_evs@curaj.ac.in | |
| 5. | Dr. Ranveer Singh | Department of Sociology and Social Work Rahya Suchani, Samba District, Bagla, Jammu and Kashmir 181143 ranvir.jnu@gmail.com | |
| 1. | Dr. Pottakkal George Jose | National Institute of Hydrology, Western Himalayan Regional Centre, Satwari, Opp. Military Hospital, Jammu Cantt - 180 003 (J & K) jose.pottakkal@gmail.com | |
| 2. | Dr. Shruti | Amity School of Earth and Environmental Sciences, Amity Education Valley, Gurgaon (Manesar) – 122 413, Haryana sakshishruti@gmail.com | |
| 3. | Dr. Parmanand Sharma | National Centre for Antarctic and Ocean Research, Ministry of Earth Sciences, Government of India, Headland Sada, Vasco-da-Gama, Goa 403 804 pnsharma@ncaor.gov.in | ENV 578 – Introduction to Glaciology |
| 4. | Dr. Anupam Sharma | Birbal Sahni Institute of Palaeosciences, 53 University Road , Lucknow – 226007 anupam110367@gmail.com | |
| 5. | Dr. Rakesh Kumar Ranjan | Department of Geology, School of Physical Sciences, Sikkim University, Dara Gaon, Tadong, Gangtok, Sikkim – 737102 geology@cus.ac.in rakeshranjan.jnu@gmail.com | |
| 1. | Dr. Pottakkal George Jose | National Institute of Hydrology, Western Himalayan Regional Centre, Satwari, Opp. Military Hospital, Jammu Cantt - 180 003 (J & K) jose.pottakkal@gmail.com | |
| 2. | Dr. Shruti | Amity School of Earth and Environmental Sciences, Amity Education Valley, Gurgaon (Manesar) – 122 413, Haryana sakshishruti@gmail.com | |
| 3. | Dr. Parmanand Sharma | National Centre for Antarctic and Ocean Research, Ministry of Earth Sciences, Government of India, Headland Sada, Vasco-da-Gama, Goa 403 804 pnsharma@ncaor.gov.in | ENV 579 – Recent Trends in Glaciology |
| 4. | Dr. Anupam Sharma | Birbal Sahni Institute of Palaeosciences, 53 University Road , Lucknow – 226007 anupam110367@gmail.com | |
| 5. | Dr. Rakesh Kumar Ranjan | Department of Geology, School of Physical Sciences, Sikkim University, Dara Gaon, Tadong, Gangtok, Sikkim – 737102 geology@cus.ac.in rakeshranjan.jnu@gmail.com | |

6150

220

Ans-1

Vijay Q. Mondhary

Ashu

A

H. Singh

| | | | |
|----|---------------------------|--|--|
| 1. | Dr. Pottakkal George Jose | National Institute of Hydrology, Western Himalayan Regional Centre, Satwari, Opp. Military Hospital, Jammu Cantt - 180 003 (J & K) jose.pottakkal@gmail.com | ENV 573 – Water Resource Management |
| 2. | Dr. Shruti | Amity School of Earth and Environmental Sciences, Amity Education Valley, Gurgaon (Manesar) – 122 413, Haryana sakshishruti@gmail.com | |
| 3. | Dr. Alok Kumar | Department of Environmental Science, Central University of Rajasthan, NH-8, Bandar Sindri, Ajmer-305817, Rajasthan alok_evs@curaj.ac.in | |
| 4. | Dr. Chander Kumar Singh | Department of Regional Water Studies, TERI University, Plot No. 10 Institutional Area, Vasant Kunj, New Delhi - 110 070 chander.singh@teriuniversity.ac.in chanderkumarsingh@gmail.com | |
| 5. | Dr. Rakesh Kumar Ranjan | Department of Geology, School of Physical Sciences, Sikkim University, Dara Gaon, Tadong, Gangtok, Sikkim – 737102 geology@cus.ac.in rakeshranjan.jnu@gmail.com | |

DR. DILBAG SINGH

| | | | |
|----|--------------------|--|---|
| 1. | Prof. M.S. Chauhan | Professor, Department of Chemistry, Himachal Pradesh University, Shimla-5, India. Email: mohinderc11@gmail.com Mobile: 9418055803 | Energy and Environment (ENV 404). |
| 2. | Prof. S. Chauhan | Professor, Department of Chemistry, Himachal Pradesh University, Shimla-5, India. Email: scschauhan19@gmail.com Mobile: 9418001803 | |
| 3. | Prof. S.K Mehta | Professor, Department of Chemistry, Panjab University, Chandigarh-160014, India. Email: skmehta@pu.ac.in Mobile: 9417786061 | |
| 4. | Prof. S.K. Lomesh | Professor, Department of Chemistry, Himachal Pradesh University, Shimla-5, India. Email: drsklomesh@gmail.com Mobile: 9418382396 | |
| 5. | Prof. A.K Ganguly | Professor, Department of Chemistry, Indian Institute of Technology, Delhi, Hauz Khas, New Delhi-110016, India Tel: +91-11-26591511 (Of fice) +91-11-26596452 (Lab) Email: ashok@chemistry.iitd.ac.in | |
| 1. | Dr Rajeev Kumar | Assistant Prof, Department of Environmental Sciences, Panjab University, Chandigarh-160014, India. Tel: +91-172-8146767744 Email: rajeev@pu.ac.in | Analytical Technique (ENV 412). |
| 2. | Dr. Virender Kaur | Assistant Professor, Department of Chemistry, Panjab University, Chandigarh-160014, India. Email: var_ka04@pu.ac.in Mobile: 9872313583 | |
| 3. | Dr. M.S. Thakur | Associate Professor, Department of Chemistry, Himachal Pradesh University, Shimla-5, India | |
| | | | Green Chemistry and Environment (ENV 530). |

| | | | |
|----|------------------|---|---|
| | | Email: drmahender74@gmail.com Mobile: 9218501496 | <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">222</div> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">498</div> |
| 4. | Dr. Ganga Ram | Associate Professor, Department of Chemistry, Panjab University, Chandigarh-160014, India. Email: grc22@pu.ac.in Mobile: 9878822323 | |
| 5. | Dr. Neeraj Gupta | Associate Professor, Department of Chemistry, Shoolini University, Solan. Email: gupta_nrj@gmail.com Mobile: 8894211891 | |

The BOS discussed and approved the list as duly signed and submitted by the concerned teachers as reproduced in the Table 3 above. It was further resolved that if a teacher teaching a course is not available due to any reason for a Semester to teach the course and the course he/she was teaching will be naturally taught by some other teacher. In that case the instant teacher teaching that course may send additional names of paper setters for the course to the Controller of Examination through Dean / HoD.

ITEM NO: ENV-BOS-6/15-5

To approve the updated list of External Examiners for conducting practical Examinations / Dissertations and Viva-Voce for the Department of Environmental Sciences

(Annexure-I).

The BOS discussed the updated list of External Examiners for conducting practical Examinations / Dissertations and Viva-Voce and approved the same.

ITEM NO: ENV-BOS-6/15-6

To approve the names of Co-supervisors for the following RD scholars (working under the Supervision of Dr. S. Chatterjee in the Department of Environmental Sciences, CUHP). Request letter is placed as (Annexure –II).

Table 4:

| S.No. | Enrolment No. | Name of the candidate | Co-Supervisor |
|-------|---------------|--------------------------|---|
| 1. | CUHP13RDENV03 | Miss. Madhulika Kushwaha | Dr. Dharam Singh, Senior Scientist, Biotechnology Division, IHBT, Palampur. |
| 2. | CUHP15RDENV05 | Miss. Shalini Verma | Dr. Dharam Singh, Senior Scientist, Biotechnology Division, IHBT, Palampur. |

The BOS discussed and approved the proposal as given above in table 4.

ITEM NO: ENV-BOS-6/15-7

To report to the BOS the consent of letter of Dr. Anurag Linda, Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh to act as Co-supervisor of Miss. Riju

(Signatures)

Parmar, registered for Ph.D degree (Enrolment No. 2016-E2-112) under the supervision of Prof. H.P. Singh, in the Department of Environmental Studies, Panjab University, Chandigarh. Request letter for the same is placed as (Annexure-III). (243)
444

The BOS discussed the proposal and decided that the Department of Environmental Sciences, Central University of Himachal Pradesh has no objection if Dr. Anurag Linda, Assistant Professor, is appointed by the Panjab University, Chandigarh as Co-supervisor of Miss. Riju Parmar, registered for Ph.D degree (Enrolment No. 2016-E2-112) under the supervision of Prof. H.P. Singh, in the Department of Environmental Studies, Panjab University. However, on getting appointed as Co-Supervisor, he will inform the HoD/Dean, Department of Environmental Sciences, Central University of Himachal Pradesh for reporting to the BOS in its next meeting.

ITEM NO: ENV-BOS-6/15-8

To focus on research and teaching in Waste management as an emerging area in the light of Swachh Bharat Mission.

The members agreed and suggested that following sub areas of teaching and research should be focused

- Modern and Scientific Waste Management
- Biomedical waste management
- Public and occupational health
- Management engineering
- Healthy sanitation practices
- Capacity building in waste management

THE MEETING ENDED WITH A VOTE OF THANKS TO THE CHAIRMAN

Ankit Tandon
14/12/2016
Dr. Ankit Tandon
(Member)

Mushtaq Ahmed
Dr. Mushtaq Ahmed
(Member)

Amrish K. Mahajan
Prof. Amrish K. Mahajan
(Member)

Vikram Singh
14/12/16
Dr. Vikram Singh
(VC Nominee)

Adarsh Pal Vig
Dr. Adarsh Pal Vig
(Subject Expert)

H. Tombi Singh
Prof. H. Tombi Singh
(Subject Expert)

Deepak Pant
Dr. Deepak Pant
(Chairman and Convener)

हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh

(Established under Central Universities Act 2009)
PO Box no. 21, Dharamshala, Distt. Kangra, Himachal Pradesh- 176215
(Temporary Academic Block, Shahpur)



MINUTES

**SEVENTH BOARD OF STUDIES MEETING
HELD ON 20TH JUNE, 2018 AT 10.30 AM.**

**Venue: Committee Room, Temporary Academic Block,
CENTRAL UNIVERSITY OF HIMACHAL PRADESH,
Shahpur , District Kangra(HP)**



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh
(Established under Central Universities Act 2009)
PO Box no. 21, Dharamshala, Distt. Kangra, Himachal Pradesh- 176215
(Temporary Academic Block, Shahpur)

Dated: 20th June, 2018

File No. EES/1-5 (Vol.II)/CUHP/12

MINUTES

The 7th Board of Studies (BOS) meeting of Department of Environmental Sciences was held on 20th June, 2018 at 10.30 AM at Central University of Himachal Pradesh, Temporary Academic Block (TAB), Shahpur. The following were present:

| | | |
|-----|--|---------------------|
| 1. | Prof. Deepak Pant , Professor & Head, Department of Environmental Sciences, Dean, School of Earth and Environmental Sciences | CONVENER & CHAIRMAN |
| 2. | Prof. Adarsh Pal Vig , Department of Botanical and Environmental Sciences, GNDU, Amritsar | SUBJECT EXPERT |
| 3. | Prof. Amrish Kumar Mahajan , Professor, Department of Environmental Sciences, Central University of Himachal Pradesh | MEMBER |
| 4. | Prof. Mushtaq Ahmed Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | MEMBER |
| 5. | Prof. O.S.K.S. Sastri , Professor & Dean, School of Physical and Material Sciences, Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) |
| 6. | Dr. Vikram Singh , Assistant Professor, Centre for Computational Biology & Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) |
| 7. | Dr. Subhankar Chatterjee , Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | MEMBER |
| 8. | Dr. Ankit Tandon Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |
| 9. | Dr. Anurag Linda Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |
| 10. | Dr. Dilbag Singh Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |

The following member could not attend the meeting due to prior assignments and was granted leave of absence:

| | | |
|----|---|----------------|
| 1. | Prof. H. Tombi Singh Ex-Vice Chancellor, Manipur University, Imphal (Manipur) | SUBJECT EXPERT |
|----|---|----------------|

[Handwritten signatures and dates]
20/6/18
Adh...
20/6/18

1. Dr. Deepak Pant, Dean, School of Earth and Environmental Sciences (Convener & Chairman of the BOS) welcomed all the members and thanked them for being available for attending this meeting.

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THEREAFTER, THE AGENDA ITEMS WERE TAKEN UP AS UNDER:

ITEM NO: ENV-BOS-7/18-1

Confirmation of the Minutes of the 6th Meeting of the Board of Studies held on 14th December, 2016..
The Minutes of 6th Meeting of the Board of Studies (BOS) held on 14th December, 2016. were Confirmed.

ITEM NO: ENV-BOS-7/18-2.

Confirm the minutes of different meetings of RPMC and DRC held after the 14th December, 2016 (Annexure A).

ITEM NO: ENV-BOS-7/18-3

The BOS discussed the list of courses as given in table 1 above and approved the same.

ITEM NO: ENV-BOS-7/18-4

The BOS approved the "Booklet of Course Contents (Annexure B)

ITEM NO: ENV-BOS-7/18-5

Table 2. : List of New Courses to be introduced in Environmental Science Program, Approved

ITEM NO: ENV-BOS-7/18-6
Annexure C approved;

[Handwritten signatures and initials]

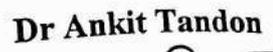
THE MEETING ENDED WITH A VOTE OF THANKS TO THE CHAIR



Dr. Dilbag Singh



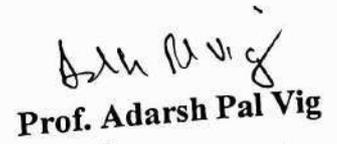
Dr Anurag Linda



Dr. Vikram Singh



Prof. O.S.K.S. Sastri

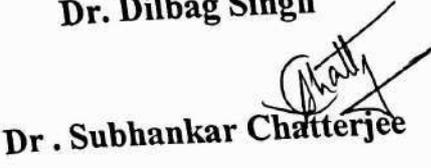


Prof. Adarsh Pal Vig

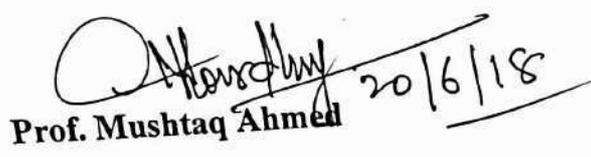


Prof. Deepak Pant
(Chairman and Convener)

26/1
5/24



Dr. Subhankar Chatterjee



20/6/18

Prof. Mushtaq Ahmed



20/6/18

Prof. Ambrish K. Mahajan

□□□□□□ □□□□□□ □□□□□□□□ □□□□□□□□□□□□□□

Central University of Himachal Pradesh

(Established under Central Universities Act 2009)

(Temporary Academic Block, Shahpur)



MINUTES

SEVENth SCHOOL BOARD MEETING
BY CIRCULATION 2020

CENTRAL UNIVERSITY OF HIMACHAL PRADESH,
Shahpur ,District kangra (HP)



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय Central University of Himachal Pradesh

(Established under Central Universities Act 2009)

अस्थायी शैक्षणिक खण्ड, शाहपुर, जिला कौगडा, हिमाचल प्रदेश - 176206
Temporary Academic Block, Shahpur, Distt. Kangra (HP) - 176206
Website: www.cuhimachal.ac.in

File No. EES/1-6 (Vol. II)/CUHP/16/

Dated: 10.08.2020

MINUTES

The 7th School Board meeting of the School of Earth and Environmental Sciences was held on 10th ~~July~~ ^{August}, 2020 online from 11:30 AM (Onwards) from Central University of Himachal Pradesh, Temporary Academic Block (TAB), Shahpur. The following were present:

| | | |
|----|---|---------------------|
| 1. | Prof. Ambrish Kumar Mahajan, Professor & Head, Department of Environmental Sciences, Dean, School of Earth & Environmental Sciences | Chairman & Convener |
| 2. | Prof. B.C. Chauhan, Professor & Dean, School of Physical & Material Sciences | VC Nominee (Online) |
| 3. | Prof. Rakesh Kumar, Professor & Dean, School of Mathematics, Computer & Information Sciences | VC Nominee (Online) |
| 4. | Dr. Subhankar Chatterjee, Assistant Professor, Department of Environmental Sciences | Member |

The following members attend the meeting on line due to Covid-19 situations:

| | | |
|----|--|-------------------------|
| 1. | Dr. Adarsh Pal Vig, Professor, Guru Nanak Dev University, Amritsar | Subject Expert (Online) |
| 2. | Prof. Arvind Kumar Bhatt, Professor, Department of Biotechnology, Himachal Pradesh University, Shimla. | Subject Expert (Online) |
| 3. | Prof. Pawan Sharma, Professor, Himachal Pradesh Agriculture University, Palampur. | Subject Expert (Online) |

Prof. Ambrish Kumar Mahajan, Dean, School of Earth & Environmental Sciences (Chairman & Convener of the School Board) Welcome all the members and thanked them for being available for attending this meeting.

THEREAFTER, THE AGENDA ITEMS WERE TAKEN UP AS UNDER:

Agenda Items:

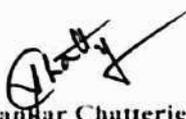
ITEM NO: ENV-SB-/20-1: Confirmation of the minutes of the 6th meeting of the School Board held on 20 June, 2018. (Copy attached)

The School Board of the School of Earth and Environmental Sciences, confirmed the minutes the Minutes of the 6th meeting of the School of Board held on 10th August, 2020. / 20th June 2018

ITEM NO. ENV-SB-/20-2: To delivered and approved the minutes of the 9th Board of Studies held on 7th July, 2020, at LAB-Shahpur.

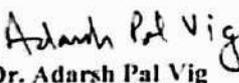
The School Board approved the minutes of the Board of Studies of the Department of Environmental Sciences held on 10 August, 2020. / 7th July 2020.

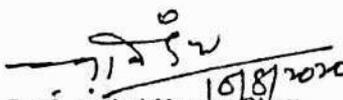
Any other items with the permission of the chair.

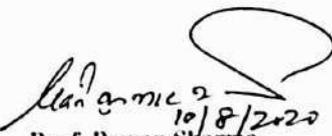

Dr. Subhanakar Chatterjee
(Member)


Prof. Rakesh Kumar
(VC Nominee)


Prof. B.C. Chauhan
(VC Nominee)


Dr. Adarsh Pal Vig
(Subject Expert) 10/8/2020


Prof. Arvind Kumar Bhatt
(Subject Expert) 10/8/2020


Prof. Pawan Sharma
(Subject Expert) 10/8/2020


Prof. Ambrish Kumar Mahajan
(Chairman & Convener)

हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh

(Established under Central Universities Act 2009)

Dharamshala, Distt. Kangra, Himachal Pradesh- 176215

(Shahpur Campus, Shahpur, Kangra, Himachal Pradesh, India - 176206)



MINUTES

TENTH MEETING OF THE BOARD OF STUDIES

OF THE DEPARTMENT OF ENVIRONMENTAL SCIENCES
HELD ON 25TH SEPTEMBER, 2021 AT 11.45 AM onwards.

Venue: ONLINE - GOOGLE MEET



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh
(Established under Central Universities Act 2009)
Dharamshala, Distt. Kangra, Himachal Pradesh- 176215
(Shahpur Campus, Shahpur, Kangra, Himachal Pradesh, India - 176206)

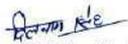
File No. EES/1-5 (Vol.II)/CUHP/....

Dated: 25th September, 2021

MINUTES

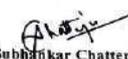
The 10th meeting of the **Board of Studies (BOS)** of the **Department of Environmental Sciences** was held **Online** on 25th September, 2021 at **11.45 AM onwards** on Google Meet platform. The following members/invitees attended the meeting:

| | | |
|----|--|--------------------------------|
| 1. | Prof. Deepak Pant , Professor & Head, Department of Environmental Sciences, Dean, School of Earth and Environmental Sciences | CONVENER & CHAIRMAN |
| 2. | Prof. AL. Ramanathan , School of Environmental Sciences, Jawaharlal Nehru University, New Delhi - 110067 | SUBJECT EXPERT |
| 3. | Prof. Desh Raj Thakur , Department of Bio Sciences, Himachal Pradesh University, Shimla-171005 | SUBJECT EXPERT |
| 4. | Prof. A. K. Mahajan , Professor, Department of Environmental Sciences, Central University of Himachal Pradesh | MEMBER |
| 5. | Prof. O.S.K.S. Sastri , Professor, School of Physical and Material Sciences, Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) |
| 6. | Dr. Vikram Singh , Assistant Professor, Centre for Computational Biology & Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) |
| 7. | Dr. Ankit Tandon Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |
| 8. | Dr. Subhankar Chatterjee , Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |


(Dr. Dilbag Singh)

(Dr. Ankit Tandon)
Approved through Email
(Prof. O.S.K.S. Sastri)

Approved through Email
(Prof. Desh Raj Thakur)


(Dr. Subhankar Chatterjee)
Approved through Email
(Dr. Vikram Singh)
Approved through Email
(Prof. A. K. Mahajan)
Approved through Email
(Prof. AL. Ramanathan)

Prof. Deepak Pant
Chairman and Convener
Head, Department of Environmental Sciences
हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh
अस्थायी शैक्षणिक ब्लॉक / Temporary Academic Block
शाहपुर, कांगड़ा (हि.प्र.) / Shahpur, Kangra (H.P.) - 176206



| | | |
|----|--|------------------------|
| 9. | Dr. Dilbag Singh Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |
|----|--|------------------------|

The following members could not attend the meeting:

| | | |
|----|--|---------------|
| 1. | Dr. Anurag Linda Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | MEMBER |
|----|--|---------------|

Prof. Deepak Pant, Dean, School of Earth and Environmental Sciences (Convener & Chairman of the BOS) welcomed all the members and thanked them for being available and for attending the meeting.

THEREAFTER, THE AGENDA ITEMS WERE TAKEN UP AS UNDER:

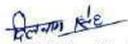
Agenda Items:

ITEM NO: ENV-BOS-10/21-1: *Confirmation of the Minutes of the 9th Meeting of the Board of Studies held on 7th July, 2020.*

The BoS confirmed the Minutes of the 9th Meeting of the Board of Studies held on 7th July, 2020. (Annexure-I)

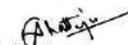
ITEM NO: ENV-BOS-10/21-2: *To place before the BoS for its approval, a revised structure the M.Sc. Environmental Science programme in the light of New Education Policy-2020. All the revisions made, time to time, in the syllabus of different courses of the M.Sc. Environmental Science programme as per the NEP-2020 guidelines will be reported to the upcoming BOS meetings.*

The BoS approved the revised structure the M.Sc. Environmental Science programme in the light of New Education Policy-2020. (Annexure-II)


(Dr. Dilbag Singh)

(Dr. Anurag Linda)
Approved through Email
(Prof. O.S.K.S. Sastry)

Approved through Email
(Prof. Desh Raj Thakur)


(Dr. Subhankar Chatterjee)
Approved through Email
(Dr. Vikram Singh)
Approved through Email
(Prof. A. K. Mahajan)
Approved through Email
(Prof. AL. Ramanathan)

Prof. Deepak Pant)
Chairman and Convener
Head, Department of Environmental Sciences
हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh
अस्थायी शैक्षणिक ब्लॉक / Temporary Academic Block
शाहपुर, कांगड़ा (हि.प्र.) / Shahpur, Kangra (H.P.) - 176206



ITEM NO: ENV-BOS-10/21-3: *To place before the BoS for its approval Adoption of Blended mode of learning in MSc Environmental Science programme and course work of PhD Environmental Science programme in the light of New Education Policy-2020.*

The BoS approved the Adoption of Blended mode of learning in MSc Environmental Science programme and course work of PhD Environmental Science programme in the light of New Education Policy-2020.

ITEM NO: ENV-BOS-10/21-4: *To place before the BoS for its approval Adoption of Multiple Entry-Exit system in MSc Environmental Science programme in the light of New Education Policy-2020.*

The BoS approved the Adoption of Multiple Entry-Exit system in MSc Environmental Science programme in the light of New Education Policy-2020.

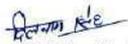
ITEM NO: ENV-BOS-10/21-5: *To place before the BoS for its approval, the list of new courses to be introduced in the proposed revised structure of the MSc Environmental Science programme as per NEP-2020.*

The BoS approved the list of new courses to be introduced in the proposed revised structure of the MSc Environmental Science programme as per NEP-2020. (Annexure-III)

ITEM NO: ENV-BOS-10/21-6: *To place before the BoS for its approval, the list of Supervisor and Co-supervisors allotted to the following Research Degree Students admitted for Ph.D. degree programme in the session 2020-2021.*

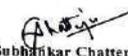
BoS approved the allotment of Supervisor and Co-supervisors to the following Research Degree Students admitted to Ph.D. degree programme in the session 2020-2021 as follows:

| Sr. No. | Registration No. | Students Name | Supervisor Allotted | Co-Supervisor Allotted |
|---------|------------------|---------------|---------------------|------------------------|
| 1. | CUHP20RDENV01 | Akshay | Dr. Dilbag Singh | |


(Dr. Dilbag Singh)

(Dr. Ankur Pandon)
Approved through Email
(Prof. O.S.K.S. Sastrî)

Approved through Email
(Prof. Desh Raj Thakur)


(Dr. Subhankar Chatterjee)
Approved through Email
(Dr. Vikram Singh)
Approved through Email
(Prof. A. K. Mahajan)
Approved through Email
(Prof. AL. Ramanathan)

Prof. Deepak Pant)
Chairman and Convener
Head, Department of Environmental Sciences
हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh
अस्थायी शैक्षणिक ब्लॉक / Temporary Academic Block
शाहपुर, कांगड़ा (हि.प्र.) / Shahpur, Kangra (H.P.)-176206



| | | | | |
|----|---------------|---------------------|--------------------------|---|
| 2. | CUHP20RDENV03 | Dharneshwari Sharma | Prof. A.K.Mahajan | |
| 3. | CUHP20RDENV04 | Komal Kundal | Prof. A.K.Mahajan | |
| 4. | CUHP20RDENV04 | Priyanka | Prof. A.K.Mahajan | |
| 5. | CUHP20RDENV06 | Priyanka Chaudhary | Dr. Subhankar Chatterjee | |
| 6. | CUHP20RDENV07 | Richa Panjla | Prof. A.K.Mahajan | Dr. Sanjay Panday, Scientist, Central Ground Water Board, Ministry of Jal Shakti, Govt. of India, Dharmshala, H.P |
| 7. | CUHP20RDENV08 | Ritika Sharma | Dr. Dilbag Singh | |
| 8. | CUHP20RDENV09 | Sunidhi | Dr. Subhankar Chatterjee | |

In the case of Mr. Deepak Sharma (CUHP20RDENV02), the following facts have come to the notice of the BoS members regarding allocation of supervisor.

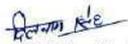
1. Statement received by the then head and dean of the department and school was received and recorded as **Annexure A**.
2. Statement received from Dr Pankaj Thakur former Associate Professor (Leave vacancy), Department of Environmental Sciences, Central University of Himachal Pradesh, Dharamshala (Currently Associate Professor, Jawaharlal Nehru University) as **Annexure B**.

DISCUSSION AND RESOLUTION

Based on the expertise of Dr Dilbag Singh, an Assistant Professor in the Department of Environmental Sciences, Central University of Himachal Pradesh will be the prospective supervisor of Mr Deepak Sharma (CUHP20RDENV02). The BoS further took the advice of Dr. Dilbag Singh regarding the fact:

Even though Dr. Dilbag Singh gave his consent for supervising Mr Deepak Sharma in front of all the BOS members in the interest of student, but he has submitted that he already has exhausted his maximum number (04) of PhD students as per the UGC guideline.

It was finally resolved from the members that the candidate (Mr Deepak Sharma) can be permitted to do his research with Dr Dilbag Singh subject to the supernumerary PhD seat permission to him from the competent authority and accordingly he will make further association with Dr Pankaj Thakur as per the rules.


(Dr. Dilbag Singh)

(Dr. Ankur Pandon)
Approved through Email
(Prof. O.S.K.S. Sastry)

Approved through Email
(Prof. Desh Raj Thakur)


(Dr. Subhankar Chatterjee)
Approved through Email
(Dr. Vikram Singh)
Approved through Email
(Prof. A. K. Mahajan)
Approved through Email
(Prof. AL. Ramanathan)

Prof. Deepak Pant)
Chairman and Convener
Head, Department of Environmental Sciences
हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh
अस्थायी शैक्षणिक ब्लॉक / Temporary Academic Block
शाहपुर, कांगड़ा (हि.प्र.) / Shahpur, Kangra (H.P.) - 176206



Annexure A

25/09/2021, 08:21

Yahoo Mail - Re: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

Re: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

From: Ambrish Mahajan (akmahajan@rediffmail.com)
To: dpant2003@yahoo.com; rajeev025singh@gmail.com
Cc: dilbagrana@gmail.com; thakurpankaj535@gmail.com
Date: Thursday, 23 September, 2021, 05:50 pm IST

Dear Dr Pant

Mr Deepak has joined as research scholar after getting recommendations from Dr Pankaj Thakur, who was faculty of the department (on lien)at that time. However Dr Pankaj Thakur was relieved from university on his selection in JNU as Associate Professor. Dr Pankaj was an expert in Nano Technology and we have similar expertise available is Dr Dilbag Singh.so keeping in view the interest of student and his field of inetrest shown at the time of his admission. I recommend that Mr Deepak Sharma may kindly be allot to Dr Dilbag Singh with co supervision of Dr Pankaj Thakur.

Regards
Prof. A.K. Mahajan
Professor, ENV

From: rajeev singh <rajeev025singh@gmail.com>
Sent: Thu, 23 Sep 2021 17:27:38 GMT+0530
To: Ambrish Mahajan <akmahajan@rediffmail.com>
Subject: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

आदरणीय महोदय

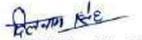
मैं पर्यावरण विज्ञान विभाग के विभागाध्यक्ष के आदेशानुसार लिख रहा हूँ कि संकलित ईमेल प्राप्त करें कि

केंद्रीय विश्वविद्यालय हिमाचल प्रदेश के पर्यावरण विज्ञान विभाग के शोध छात्र श्री दीपक शर्मा से डॉ. पंकज ठाकुर के हस्ताक्षर के साथ प्रार्थना पत्र प्राप्त हुआ है। दीपक शर्मा का पी. एच. डी. में दाखिला आपके पर्यावरण विज्ञान विभाग में अधिष्ठाता तथा विभागाध्यक्ष कार्यकाल में हुआ था अतः - आपसे विनम्र अनुरोध है कि दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्ति के बारे में अपनी राय (Remarks) प्रदान करने की कृपा करें।

धन्यवाद

सादर

राजीव सिंह
डाटा एंट्री ऑपरेटर
पर्यावरण विज्ञान विभाग
contact no. 9805202021


(Dr. Dilbag Singh)


(Dr. Ankur Pandon)

Approved through Email

(Prof. O.S.K.S. Sastry)

Approved through Email

(Prof. Desh Raj Thakur)


(Dr. Subhankar Chatterjee)

Approved through Email
(Dr. Vikram Singh)

Approved through Email

(Prof. A. K. Mahajan)

Approved through Email

(Prof. AL. Ramanathan)

Prof. Deepak Pant)
Chairman and Convener
Head, Department of Environmental Sciences
हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh
अस्थायी शैक्षणिक ब्लॉक / Temporary Academic Block
शाहपुर, कांगड़ा (हि.प्र.)/Shahpur, Kangra (H.P.)-176206



Annexure B

25/09/2021, 08:23

Yahoo Mail - Fwd: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

Fwd: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

From: rajeev singh (rajeev025singh@gmail.com)

To: dpant2003@yahoo.com

Date: Friday, 24 September, 2021, 05:41 pm IST

----- Forwarded message -----

From: Pankaj Thakur <shempank@gmail.com>

Date: Fri, Sep 24, 2021 at 4:50 AM

Subject: Re: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

To: rajeev singh <rajeev025singh@gmail.com>

Cc: <registrar@hpu.ac.in>

Dear Rajeev Ji,

As per the information sought in your trailing email, please see below my responses:

1. I give my full consent with reference to the facts and requests presented in the application of Mr Deepak Sharma (PhD student) which I got in your trailing mail.
2. As I consented affirmatively to continue guiding Mr Deepak Sharma, I am seeking an NOC from my present University/Department. Also, because of strict Covid protocols here, it may take some time!
3. Since you have put forth the Ordinance 42 of the CUHP, therefore I intend to consult/request a few of the present Faculty members of the CUHP keeping in mind the common research interests and their availability as well.

Thanks

On Thu, Sep 23, 2021 at 5:16 PM rajeev singh <rajeev025singh@gmail.com> wrote:

आदरणीय महोदय

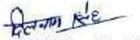
मैं पर्यावरण विज्ञान विभाग के विभागाध्यक्ष के आदेशानुसार लिख रहा हूँ कि संकलित ईमेल प्राप्त करे तथा इसी प्रार्थना पत्र के सम्बन्ध में कुछ महत्वपूर्ण तथ्य प्रस्तुत है:-

- (1) केन्द्रीय विश्वविद्यालय हिमाचल प्रदेश के पर्यावरण विज्ञान विभाग के शोध छात्र श्री दीपक शर्मा से आपके हस्ताक्षर सहित प्रार्थना पत्र प्राप्त हुआ है जो कि इस ईमेल में संकलित है क्या आप इसके सम्बन्ध में सहमत हैं।
- (2) यदि आप सहमत हैं तो कृपया अपने विश्वविद्यालय / विभाग जिसमें आप अभी कार्यरत हैं उनसे एक अनापति (NOC) प्रमाण पत्र केन्द्रीय विश्वविद्यालय हिमाचल प्रदेश के पर्यावरण विज्ञान विभाग को देने की कृपा करें।
- (3) केन्द्रीय विश्वविद्यालय हिमाचल प्रदेश के अध्यादेश 42 के अनुसार पर्यवेक्षक अपने विश्वविद्यालय का ही होना चाहिये। किसी दूसरे संस्थान / विश्वविद्यालय के विषय एकपत्र को सह पर्यवेक्षक ही नियुक्त किया जा सकता है इसलिए आपसे अनुरोध है कि केन्द्रीय विश्वविद्यालय हिमाचल प्रदेश के पर्यावरण विज्ञान विभाग में से किसी को दीपक शर्मा का पर्यवेक्षक नियुक्त होने की सहमति प्रदान कराए तभी आपको सह-पर्यवेक्षक नियुक्त किया जा सके।

धन्यवाद

सादर

राजीव सिंह
छात्रा एंटी ऑपरेटर
पर्यावरण विज्ञान विभाग


(Dr. Dilbag Singh)

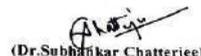

(Dr. Ankur Pandon)

Approved through Email

(Prof. O.S.K.S. Sastry)

Approved through Email

(Prof. Desh Raj Thakur)


(Dr. Subhankar Chatterjee)

Approved through Email
(Dr. Vikram Singh)

Approved through Email

(Prof. A. K. Mahajan)

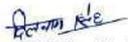
Approved through Email

(Prof. AL. Ramanathan)

Prof. Deepak Pant)
Chairman and Convener
Head, Department of Environmental Sciences
हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय
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शाहपुर, कांगड़ा (हि.प्र.)/Shahpur, Kangra (H.P.)-176206



THE MEETING ENDED WITH A VOTE OF THANKS TO THE CHAIR.


(Dr. Dilbag Singh)


(Dr. Ankur Pandon)

Approved through Email

(Prof. O.S.K.S. Sastry)

Approved through Email

(Prof. Desh Raj Thakur)


(Dr. Subhankar Chatterjee)

Approved through Email
(Dr. Vikram Singh)

Approved through Email

(Prof. A. K. Mahajan)

Approved through Email

(Prof. AL. Ramanathan)

Prof. Deepak Pant)
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हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
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अस्थायी शैक्षणिक ब्लॉक / Temporary Academic Block
शाहपुर, कांगड़ा (हि.प्र.) / Shahpur, Kangra (H.P.)-176206



Annexure-I

हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh
 (Established under Central Universities Act 2009)
 Dharamshala, Distt. Kangra, Himachal Pradesh- 176215
 (Temporary Academic Block, Shahpur)

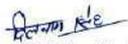


MINUTES

**NINTH BOARD OF STUDIES MEETING
 HELD ON 7TH JULY, 2020 AT 12.00 PM.**

**Venue: Seminar Hall, Temporary Academic Block,
 CENTRAL UNIVERSITY OF HIMACHAL PRADESH,
 Shahpur , District Kangra(HP)**

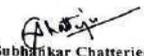



 (Dr. Dilbag Singh)


 (Dr. Ankur Pandon)

Approved through Email
 (Prof. O.S.K.S. Sastry)

Approved through Email
 (Prof. Desh Raj Thakur)


 (Dr. Subhankar Chatterjee)

Approved through Email
 (Dr. Vikram Singh)

Approved through Email
 (Prof. A. K. Mahajan)

Approved through Email
 (Prof. AL. Ramanathan)

Prof. Deepak Pant)
 Chairman and Convener
 Head, Department of Environmental Sciences
 हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
 Central University of Himachal Pradesh
 अस्थायी शैक्षणिक ब्लॉक / Temporary Academic Block
 शाहपुर, कांगड़ा (हि.प्र.)/Shahpur, Kangra (H.P.)- 176206



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh
(Established under Central Universities Act 2009)
Dharamshala, Distt. Kangra, Himachal Pradesh- 176215
(Temporary Academic Block, Shahpur)

Dated: 7th July, 2020

File No. EES/1-5 (Vol.II)/CUHP/...

MINUTES

The 9th Board of Studies (BOS) meeting of Department of Environmental Sciences was held on 7th July, 2020 at 12.00PM at Central University of Himachal Pradesh, Temporary Academic Block (TAB), Shahpur. The following were present:

| | | |
|----|--|---------------------|
| 1. | Prof. A. K. Mahajan, Professor&Head, Department of Environmental Sciences, Dean, School of Earth and Environmental Sciences | CONVENER & CHAIRMAN |
| 2. | Prof. O.S.K.S. Sastrî, Professor & Dean, School of Physical and Material Sciences, Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) |
| 3. | Dr. Pankaj Thakur, Associate Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | MEMBER |
| 4. | Dr. Subhankar Chatterjee, Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | MEMBER |
| 5. | Dr. Ankit Tandon, Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |
| 6. | Dr. Dilbag Singh, Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |

The following members attended the meeting on line due to Covid-19 situations:

| | | |
|----|--|-----------------------------|
| 1. | Prof. Desh Raj Thakur, Department of Bio Sciences, Himachal Pradesh University, Shimla-171005 | SUBJECT EXPERT (online) |
| 2. | Dr. Vikram Singh, Assistant Professor, Centre for Computational Biology & Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) on line |
| 3. | Dr. Anurag Linds, Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE (Online) |

The following members were available on telephone because of Covid-19 situations:

| | | |
|----|--|---------------------------------|
| 1. | Prof. N. N. Mandal, Division of Molecular Medicine, Cernosey Campus, Bose Institute, P-1/12 C.I.T. Scheme VII-M Kolkata-700054 | SUBJECT EXPERT (by circulation) |
|----|--|---------------------------------|

Prof. A. K. Mahajan, Dean, School of Earth and Environmental Sciences (Convener & Chairman of the BOS) welcomed all the members and thanked them for being available for attending this meeting.

(Handwritten signatures)

(Handwritten signature)
(Dr. Dilbag Singh)

(Handwritten signature)
(Dr. Ankit Tandon)

Approved through Email

(Prof. O.S.K.S. Sastrî)

Approved through Email

(Prof. Desh Raj Thakur)

(Handwritten signature)
(Dr. Subhankar Chatterjee)

Approved through Email
(Dr. Vikram Singh)

Approved through Email

(Prof. A. K. Mahajan)

Approved through Email

(Prof. AL. Ramanathan)

Prof. Deepak Pant)
Chairman and Convener
Head, Department of Environmental Sciences
हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh
अस्थायी शैक्षणिक ब्लॉक / Temporary Academic Block
शाहपुर, कांगड़ा (हि.प्र.)/Shahpur, Kangra (H.P.)- 176206

THEREAFTER, THE AGENDA ITEMS WERE TAKEN UP AS UNDER:

Agenda Items:

ITEM NO: ENV-BOS-9/20-1: Confirmation of the Minutes of the 8th Meeting of the Board of Studies held on 7th June, 2019.

The BoS confirmed the Minutes of the 8th Meeting of the Board of Studies held on 7th June, 2019. (Annexure-I)

ITEM NO: ENV-BOS-9/20-2: To place before the BoS, a list of courses to be taught in the coming academic session for the M.Sc. Environmental Science program and for the course work of Research Degree students of the Department of Environmental Sciences

The BoS approved the list of courses to be taught in the coming academic session for the M.Sc. Environmental Science program and for the course work of Research Degree students of the Department of Environmental Sciences (Annexure-II)

ITEM NO: ENV-BOS-9/20-3: To place before the BoS, the matter regarding appointment of Supervisor and Co-supervisors to the following Research Degree Students admitted for Ph.D. degree programme in the session 2018-2019.

BoS approved the appointment of Supervisor and Co-supervisors to the following Research Degree Students admitted to Ph.D. degree programme in the session 2018-2019 as follows:

| Sr. No. | Name of Research Degree Student | Enrolment Number | Name of Supervisor |
|---------|---------------------------------|------------------|---------------------|
| 1 | Chhabeel | CUHP18RDENV01 | Dr. Ankit Tandon |
| 2 | Harsh Sharma | CUHP18RDENV02 | Prof. A. K. Mahajan |

ITEM NO: ENV-BOS-9/20-4: To place before the BOS the matter regarding the appointment of Prof. A. K. Mahajan as co-supervisor to the Ms. Sunanda Patial of Maharaja Agrasen University, Baddi, Solan, Himachal Pradesh as per the guidelines of UGC enlisted in the Sub Clause 6.4 of its Notification dated 5th May, 2016 for Minimum Standards and Procedure for Award of M.PHIL./PH.D degrees Regulations, 2016.

The BoS approved the appointment of Prof. A. K. Mahajan as co-supervisor to the Ms. Sunanda Patial of Maharaja Agrasen University, Baddi, Solan, Himachal Pradesh as per the guidelines of UGC enlisted in the Sub Clause 6.4 of its Notification dated 5th May, 2016 for Minimum Standards and Procedure for Award of M.PHIL./PH.D degrees Regulations, 2016.

ITEM NO: ENV-BOS-9/20-5: To place before the BoS, the matter regarding change of Supervisor and Co-supervisors of Ms. Shabnam (CUHP17RDENV10) as Prof. Mushtaq Ahmed (present Supervisor) has taken lien to join Central University of Jammu. Prof. Mushtaq Ahmed has been appointed as Supervisor by the last BOS and notified by Department on 05/03/2019. Later Prof Mushtaq Ahmed shifted to Central University Jammu in November 2019 on lien. Now Miss Shabnam

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(Dr. Dilbag Singh)

(Dr. Ankit Tandon)

Approved through Email

(Prof. O.S.K.S. Sastry)

Approved through Email

(Prof. Desh Raj Thakur)

(Dr. Subhankar Chatterjee)

Approved through Email
(Dr. Vikram Singh)

Approved through Email

(Prof. A. K. Mahajan)

Approved through Email

(Prof. AL. Ramanathan)

Prof. Deepak Pant)
Chairman and Convener
Head, Department of Environmental Sciences
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Central University of Himachal Pradesh
अस्थायी शैक्षणिक ब्लॉक / Temporary Academic Block
शाहपुर, कांगड़ा (हि.प्र.)/Shahpur, Kangra (H.P.)-176206

has requested vide her mail dated 24/5/2020 for change of supervisor for direct supervision. Prof. Mithraj Ahmed has given his NOC mentioning that he is not in a position to guide her as he has moved to C.U.I. At present Prof. Mithraj Ahmed is supervisor and Prof. Deepak Pant is a co-supervisor. In the meantime Miss. Shabnam has also send a request that she wanted to resign from Ph.D programme as she don't want to continue further. Submitted for discussion and approval please.

The BoS discussed the matter and resolved to appoint Prof. A. K. Mahajan as Supervisor (for Administrative Formalities) and Prof. Deepak Pant as Co-Supervisor (Subject Area Expert) for the Ph.D. research work of Miss. Shabnam. The BoS advised to send back the resignation request of Miss. Shabnam to her for re-consideration. This should be considering as supernumerary seat under Prof A.K. Mahajan.

ITEM NO: ENV-BOS-9/20-6: To place before the BOS, the matter regarding appointment of co-supervisors. The requests received from the faculty member (Dr. Ankit Tandon and Dr. Anurag Linda) of the Department for the appointment a Co-Supervisor for their Research Degree Students (Ms. Sarita Bamotra and Ms. Shikha Rawal respectively) of the Department admitted during the session 2016-2017 as per the guidelines of UGC enlisted in the Sub Clause 6.4 of its Notification dated 5th May, 2016 for Minimum Standards and Procedure for Award of M.PHIL./PH.D. Degrees Regulations, 2016.

The BoS approved the appointment of following co-supervisors for their Research Degree Students (Ms. Sarita Bamotra and Ms. Shikha Rawal) of the Department admitted during the session 2016-2017 as per the guidelines of UGC enlisted in the Sub Clause 6.4 of its Notification dated 5th May, 2016 for Minimum Standards and Procedure for Award of M.PHIL./PH.D. Degrees Regulations, 2016.

| S. No. | Name of Research Degree Student | Enrolment Number | Name of Supervisor | Name and Address of Co-Supervisor |
|--------|---------------------------------|------------------|--------------------|--|
| 1 | Sarita Bamotra | CUHP17RDENV09 | Dr. Ankit Tandon | Dr. Shweta Yadav, Department of Environmental Science, Central University of Jammu |
| 2 | Shikha Rawal | CUHP17RDENV12 | Dr. Anurag Linda | Dr. Pottakkal George Jose National Institute of Hydrology, Scientist-in- Charge, Western Himalayan Regional Centre, Flood Control Complex, Jammu Cantt. Jammu-180003 (J&K), INDIA |

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[Handwritten signatures and initials]

[Signature]
(Dr. Dilbag Singh)

[Signature]
(Dr. Ankit Tandon)

Approved through Email

(Prof. O.S.K.S. Sastry)

Approved through Email

(Prof. Desh Raj Thakur)

[Signature]
(Dr. Subhankar Chatterjee)

Approved through Email
(Dr. Vikram Singh)

Approved through Email

(Prof. A. K. Mahajan)

Approved through Email

(Prof. AL. Ramanathan)

Prof. Deepak Pant)
Chairman and Convener
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ITEM NO: ENV-BOS-9/20-7: To place before the BOS the matter regarding change of supervisor under clause 12.1 of the ordinance of Ms. Kanika Mahajan (CUHP17RDENV05), R.D. student, admitted in the University during the session 2017-18 and presently doing Ph.D. under the supervision of Dr. Subhankar Chatterjee. A letter from Dr. Subhankar Chatterjee and Miss Kanika Mahajan are attached for kind consideration.

The BoS approved the change of supervisor and also approved the appointment of Prof. A. K. Mahajan as Supervisor with the condition that Ms. Kanika Mahajan will not use any data, any bacterial strain, any publication and any material which she has generated/used in Dr. Subhankar Chatterjee's lab, for her future PhD research/thesis and for any write-up/publication. She will not be allowed to carry any bacterial strain, any material from Dr. Subhankar Chatterjee's lab. She will also not be allowed to use the research topic she was working on in his group under his supervision. Before joining any other lab Ms. Kanika Mahajan will acquire an NOC and proper relieving letter from Dr. Subhankar Chatterjee.

She will start afresh with new topic for her PhD research under the supervision of Prof. A. K. Mahajan. The matter of co-supervisor has also been discussed as Prof. Mahajan has mentioned that he is not the subject expert. Prof. Mahajan has agreed to help the student so that she can complete her degree from the department of Environmental Sciences and need not to deregister. Since Prof. Mahajan has mentioned that he has already discussed the matter verbally with Dr. Sunil Thakur to be her co-supervisor and Dr. Sunil Thakur has also given his consent in writing. The BOS consider the request of Prof. Mahajan and also allowed him to consider Dr. Sunil Thakur as her co-supervisor. This should be considering as supernumerary seat under Prof. A.K. Mahajan.

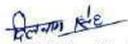
The BoS also suggested that this case should be considered as an exceptional and one time case and this kind of practices (Change of supervisor on whims and fancies of students) in the department should be discouraged. Except some unavoidable circumstances department should not allow the PhD students to change the supervisor.

ITEM NO: ENV-BOS-9/20-8: To place before the BoS for approval of new course ENV 58 Regional (Indian) Environmental Policies (04 credits) for spring session 2020- 21.

The BoS approved the new course ENV 58 Regional (Indian) Environmental Policies (04 credits) for spring session 2020- 21. (Annexure-III)

ITEM NO: ENV-BOS-9/20-9: To Place before the BOS, prior assignment of Dr. Parthaj Thakur as supervisor/co-supervisor at his previous organization (Shoolini University) whereby he has a Ph.D.

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(Dr. Dilbag Singh)


(Dr. Ankur Pandon)

Approved through Email

(Prof. O.S.K.S. Sastry)

Approved through Email

(Prof. Desh Raj Thakur)


(Dr. Subhankar Chatterjee)

Approved through Email
(Dr. Vikram Singh)

Approved through Email

(Prof. A. K. Mahajan)

Approved through Email

(Prof. AL. Ramanathan)

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student as Guide. The names of the students are Ms. Lavanya Tandon, Ms. Bhavna Sharma, Ms. Farah Menzer and Sanjay Thakur.

The BoS accorded its approval to Dr. Pankaj Thakur to continue his supervision/co-supervision to Ms. Lavanya Tandon, Ms. Bhavna Sharma, Ms. Farah Menzer and Sanjay Thakur at his previous organization (Shoolani University).

ITEM NO: ENV-BOS-9/20-10: To place before the BoS for approval the updated list of External Examiners for conducting practical/M.Sc. Dissertations Examinations and of the Department of Environmental Sciences.

The BoS discussed the matter and advised to abandon with such list of External Examiners. BoS empowered the Head of the Department to propose names of external examiners on the recommendation of the faculty concerned on case to case basis as and when it required to do so.

THE MEETING ENDED WITH A VOTE OF THANKS TO THE CHAIR.


Dr. Dilbag Singh


Dr. Anurag Linda


Dr. Ankit Tandon

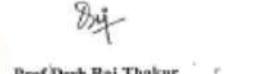
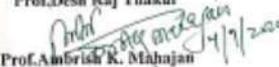

Dr. Subhanakar Chatterjee

Dr. Vikram Singh

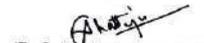

Dr. Pankaj Thakur

Prof. O.S.K.S. Sastri

Prof. N. N. Mandal


Prof. Desh Raj Thakur

Prof. Anbrish K. Mahajan
(Chairman and Convener)


(Dr. Dilbag Singh)


(Dr. Subhanakar Chatterjee)


(Dr. Ankit Tandon)

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(Dr. Vikram Singh)

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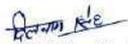


Annexure-II

2 YEARS MASTER'S DEGREE PROGRAMME Eligibility: 3 Year Bachelor's Degree Programme

General Guideline

- The students who have 3 Years Bachelor's Degree are eligible for admission in this programme.
- The Department will offer 2 Years Master's Degree Programmes from the academic session 2021 – 2022 in line with the recommendations of National Education Policy – 2020.
- In order to stay in sync with the National Level institutions, the University will follow the guidelines of multiple entry and exit in academic programmes issued by UGC on July 29, 2021.
- The total number of credits will be a maximum of 20 in each semester and it will be followed strictly.
- A large component of IKS and Vocational/ Skill Courses will be offered at the Master's Degree level.
- All courses will be conducted in blended mode i.e. 80% offline and 20% online compulsorily in Master's Degree Programmes.
- Department Level Task Force will develop the complete structure of the programmes to be offered and it will design the syllabus of different courses with the help of all the teachers of the department as per the requirements.
- The vocational/skill based courses should be designed in the manner that the students may develop sufficient skill in their respective field at the exit level.
- Two courses on the Indian Knowledge System (IKS) will be introduced in the 1 st semester and 2nd semester respectively.
- 20% of contents in all the courses offered in each semester should be taught through online mode for which the experts will be invited from outside the University.
- For the online mode of teaching, the experts will be invited for online delivery of a Unit of each course in all semesters. These experts may be invited from academia or other than academia. Each expert is expected to deliver at least 2 sessions of 90 minutes each for 4 credit courses and for 2 credit courses; it should be at least


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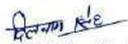


1 session of 90 minutes. After the delivery of the content of the particular unit by the external expert through online mode, the teacher concerned will also discuss the unit in the face to face mode.

- The expert will be decided by the concerned faculty member, who is teaching the particular course. In each department, the Head of the Department having discussion with the faculty members may invite a maximum of one expert from abroad (if possible), for online lectures.
- The hybrid learning model will be adopted by the teachers during their classroom teaching, so that the students at distant places may also attend the class in real time.
- The Department will offer Value Added Courses (VAC) of 20 credits apart from their discipline-specific courses in each semester.
- The total courses of any Programme will have the weightage in the range of 50% to 60% for Theory and 40% to 50% for Practice.
- The 2nd year would be entirely devoted to research only as the student may go directly for PhD programme after completion of this course.

Detailed Frame-Work

| 1st Semester: | | | |
|-------------------------------|-------------|--|---------|
| Course Type | Course Code | Course Name | Credits |
| Major Courses (10 Credits) | ENV 401 | Introduction to Ecology | 2 |
| | ENV 402a | Introduction to Earth Processes | 2 |
| | ENV 403a* | Introduction to Environmental Chemistry | 2 |
| | ENV 501 | Environmental Pollution and Human Health | 2 |
| | ENV 516 | Atmospheric Science | 2 |
| Minor Courses (4 Credits) | ENV 411 | Waste Management | 2 |
| | ENV 503 | Environmental Legislations: National and International | 2 |
| Vocational / Skill | ENV 445 | Environmental Chemistry Laboratory | 2 |


(Dr. Dilbag Singh)

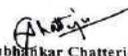

(Dr. Ankur Pandon)

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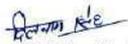
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|--|---------|---|---|
| (4 Credits) | ENV 418 | Ecology Laboratory | 2 |
| Indigenous Knowledge System (2 Credits) | XXX XXX | To be offered by University Level Committee | 2 |

2nd Semester:

| Course Type | Course Code | Course Name | Credits |
|--|-------------|---|---------|
| Major Courses (12 Credits) | ENV 424 | Fundamentals of Remote Sensing | 2 |
| | ENV 432a* | Basics of Statistical Techniques | 2 |
| | ENV 524 | Environmental Impact Assessment | 2 |
| | ENV 404 | Energy & Environment | 2 |
| Value-Added Course | ENV 502 | Natural Hazard and Disaster Management | 4 |
| Minor Courses (4 Credits) | ENV 531 | Toxicology Laboratory | 2 |
| | ENV 447* | Computational Statistical Analysis Laboratory | 2 |
| Vocational / Skill (2 Credits) | ENV 571 | Remote Sensing and GIS Laboratory | 2 |
| Indigenous Knowledge System (2 Credits) | ENV 508 | Environmental Ethics | 2 |

3rd Semester:

| Course Type | Course Code | Course Name | Credits |
|---|-------------|---|---------|
| Major Courses Elective Specialization (4 Credits) | ENV 564 | Near Surface Geophysics | 4 |
| | ENV 523 | Toxic and Hazardous Waste Management | 4 |
| | ENV 582 | Atmospheric Chemistry and Physics | 4 |
| | ENV 557 | Bio resources and Environmental Biotechnology | 4 |
| | ENV 589* | Glacial Remote Sensing | 4 |
| | ENV 586 | Nano-Techniques and Applications in Environment | 4 |
| Minor Courses (4 Credits) | ENV 581 | Methods in Scientific Research | 4 |
| Vocational / Skill | ENV 590* | Data Analysis Using GIS | 2 |


(Dr. Dilbag Singh)

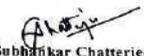

(Dr. Ankur Pandey)

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(Prof. O.S.K.S. Sastry)

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(Dr. Subhankar Chatterjee)

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(Prof. A. K. Mahajan)

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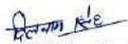
(Prof. AL. Ramanathan)

Prof. Deepak Pant)
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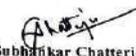
| | | | |
|--|--------------------|--|----------------|
| (4 Credits) | ENV 412 | Analytical Techniques | 2 |
| Research Work 8 Credits) | ENV 592* | Research Proposal Write-up | 4 |
| | ENV 593* | Literature Review for Environmental Science Research | 4 |
| 4th Semester: | | | |
| Course Type | Course Code | Course Name | Credits |
| Major Courses Elective Specialization (4 Credits) | ENV 594* | Chemistry of Toxicity and Detoxification | 4 |
| | ENV 560 | Meteorology & Climatology | 4 |
| | ENV 585a* | Applied Microbiology and Bioremediation | 4 |
| | ENV 509 | Glaciology | 4 |
| | ENV 588* | Advanced Environmental Nano-Technology | 4 |
| Minor Courses (4 Credits) | ENV 595* | Academic Writings | 2 |
| | ENV 595a* | Paper-Publications/Seminar-Conference Presentation at National Level | 2 |
| Vocational / Skill (4 Credits) | ENV 537 | Environmental Engineering | 2 |
| | ENV 591* | Data Analysis Tools for Environmental Science | 2 |
| Research Work (8 Credits) | ENV 575a* | MSc Dissertation | 8 |

* New Courses to be placed for discussion and approved by the BoS


 (Dr. Dilbag Singh)

 (Dr. Ankur Pandon)
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 (Prof. O.S.K.S. Sastry)

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 (Prof. Desh Raj Thakur)

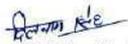

 (Dr. Subhankar Chatterjee)
 Approved through Email
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Annexure-III

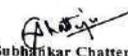
List of New Courses to be placed in the 10th meeting of BOS

| Course Code | Course Name | Credits |
|-------------|--|---------|
| ENV 403a | Introduction to Environmental Chemistry | 2 |
| ENV 432a | Basics of Statistical Techniques | 2 |
| ENV 447 | Computational Statistical Analysis Laboratory | 2 |
| ENV 508a | Indian Tradition and Environmental Ethics | 2 |
| ENV 575a | MSc Dissertation | 8 |
| ENV 585a | Applied Microbiology and Bioremediation | 4 |
| ENV 589 | Glacial Remote Sensing | 4 |
| ENV 590 | Data Analysis Using GIS | 2 |
| ENV 591 | Data Analysis Tools for Environmental Chemistry | 2 |
| ENV 592 | Research Proposal Write-up | 4 |
| ENV 593 | Literature Review for Environmental Science Research | 4 |
| ENV 594 | Chemistry of Toxicity and Detoxification | 4 |
| ENV 595 | Academic Writings | 2 |
| ENV 595a | Paper-Publications/Seminar-Conference Presentation at National Level | 2 |


 (Dr. Dilbag Singh)

 (Dr. Ankur Pandon)
 Approved through Email
 (Prof. O.S.K.S. Sastry)

 Approved through Email
 (Prof. Desh Raj Thakur)


 (Dr. Subhankar Chatterjee)
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Prof. Deepak Pant)
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हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh

(Established under Central Universities Act 2009)

Dharamshala, Distt. Kangra, Himachal Pradesh- 176215

(Shahpur Campus, Shahpur, Kangra, Himachal Pradesh, India - 176206)



MINUTES

**EIGHTH MEETING OF THE SCHOOL BOARD
OF THE SCHOOL OF EARTH AND ENVIRONMENTAL SCIENCES
HELD ON 27TH SEPTEMBER, 2021 AT 13.00 Hrs onwards.**

Venue: ONLINE - GOOGLE MEET



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh
(Established under Central Universities Act 2009)
Dharamshala, Distt. Kangra, Himachal Pradesh- 176215
(Shahpur Campus, Shahpur, Kangra, Himachal Pradesh, India - 176206)

File No. EES/1-6 (Vol.II)/CUHP/....

Dated: 27th September, 2021

MINUTES

The **8th School Board (SB)** meeting of **School of Earth and Environmental Science** was held on **27th September, 2021** at **1.00 PM onwards** on Google Meet platform. The following members/invitees attended the meeting:

| | | |
|-------|--|--------------------------------|
| S.No. | Prof. Deepak Pant Dean, School of Earth and Environmental Sciences Central University of Himachal Pradesh. | CONVENER & CHAIRMAN |
| 1. | Prof. A K Mahajan, Professor , Department of Environmental Sciences, Central University of Himachal Pradesh. | MEMBER |
| 2. | Prof. Adarsh Pal Viz, Professor , Guru Nank Dev University, Amritsar | SUBJECT EXPERT |
| 3. | Prof. Arvind Kumar Bhatt, Professor , Bio-Science Department, Himachal Pradesh University, Shimla | SUBJECT EXPERT |
| 4. | Prof. Pawan Sharma, Professor , Himachal Pradesh Agriculture University, Palampur | SUBJECT EXPERT |
| 5. | Dr. Ankit Tandon, Assistant Professor , Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |
| 6. | Dr. Subhankar Chatterjee, Assistant Professor , Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |
| 7. | Dr. Anurag Linda, Assistant Professor , Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |
| 8. | Dr. Dilbag Singh, Assistant Professor , Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |

The following members could not attend the meeting due to their prior commitments and unavoidable reasons.

| | | |
|----|--|----------------------------|
| 1. | Prof. B. C. Chauhan, Professor , Central University of Himachal Pradesh. Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) |
| 2. | Prof. Rakesh Kumar, Professor , Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) |

Prof. Deepak Pant, Dean, School of Earth and Environmental Sciences (Convener & Chairman) welcomed all the members and thanked them for being available for attending this meeting.



THEREAFTER, THE AGENDA ITEMS WERE TAKEN UP AS UNDER:

ENV-SB-8/21-1: To place before the School Board the minutes of the TENTH meeting of Board of Studies of the Department of Environmental Sciences held on 25th September, 2021.

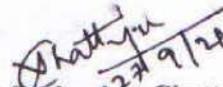
School Board confirmed the minutes of the Tenth meeting of Board of Studies of the Department of Environmental Sciences. Annexure-I

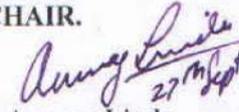
ENV-SB-8/21-2: To place before the School Board a proposal for the establishment of a Centre for Carbon Management (Skill Development Centre in the light of NEP-2020).

School Board discussed and approved the proposal for the establishment of a Centre for Carbon Management in the School of Erath and Environmental Sciences. Annexure-II

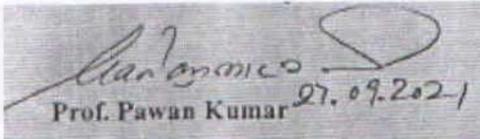
THE MEETING ENDED WITH A VOTE OF THANKS TO THE CHAIR.


27/09/2021
Dr. Dilbag Singh


27/9/21
Dr. Subhankar Chatterjee


27th Sept 2021
Dr. Anurag Linda


27/9/2021
Dr. Ankit Tandon


27.09.2021
Prof. Pawan Kumar

Approved through Email

Prof. Adarsh Pal Viz

Approved through Email
Prof. Arvind Kumar Bhatt

Approved through Email

Prof. A. K. Mahajan

Prof. Deepak Pant
अधिष्ठाता, पृ (Chairman and Convener)
Dean, School of Earth & Environmental Sciences
हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय
Central University of Himachal Pradesh
अस्थायी शैक्षणिक ब्लॉक / Temporary Academic Block
शाहपुर, कांगड़ा जिला W. Shahpur, Kangra (H.P.)-176206

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हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh

(Established under Central Universities Act 2009)

Dharamshala, Distt. Kangra, Himachal Pradesh- 176215

(Shahpur Campus, Shahpur, Kangra, Himachal Pradesh, India - 176206)



MINUTES

**TENTH MEETING OF THE BOARD OF STUDIES
OF THE DEPARTMENT OF ENVIRONMENTAL SCIENCES
HELD ON 25TH SEPTEMBER, 2021 AT 11.45 AM onwards.**

Venue: ONLINE - GOOGLE MEET



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh
(Established under Central Universities Act 2009)
Dharamshala, Distt. Kangra, Himachal Pradesh- 176215
(Shahpur Campus, Shahpur, Kangra, Himachal Pradesh, India - 176206)

File No. EES/1-5 (Vol.II)/CUHP/....

Dated: 25th September, 2021

MINUTES

The 10th meeting of the **Board of Studies (BOS)** of the **Department of Environmental Sciences** was held **Online** on 25th September, 2021 at **11.45 AM onwards** on Google Meet platform. The following members/invitees attended the meeting:

| | | |
|----|--|--------------------------------|
| 1. | Prof. Deepak Pant , Professor & Head, Department of Environmental Sciences, Dean, School of Earth and Environmental Sciences | CONVENER & CHAIRMAN |
| 2. | Prof. AL. Ramanathan , School of Environmental Sciences, Jawaharlal Nehru University, New Delhi - 110067 | SUBJECT EXPERT |
| 3. | Prof. Desh Raj Thakur , Department of Bio Sciences, Himachal Pradesh University, Shimla-171005 | SUBJECT EXPERT |
| 4. | Prof. A. K. Mahajan , Professor, Department of Environmental Sciences, Central University of Himachal Pradesh | MEMBER |
| 5. | Prof. O.S.K.S. Sastri , Professor, School of Physical and Material Sciences, Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) |
| 6. | Dr. Vikram Singh , Assistant Professor, Centre for Computational Biology & Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) |
| 7. | Dr. Ankit Tandon Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |
| 8. | Dr. Subhankar Chatterjee , Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |
| 9. | Dr. Dilbag Singh Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |

The following members could not attend the meeting:

| | | |
|----|---|---------------|
| 1. | Dr. Anurag Linda Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | MEMBER |
|----|---|---------------|

Prof. Deepak Pant, Dean, School of Earth and Environmental Sciences (Convener & Chairman of the BOS) welcomed all the members and thanked them for being available and for attending the meeting.



THEREAFTER, THE AGENDA ITEMS WERE TAKEN UP AS UNDER:

Agenda Items:

ITEM NO: ENV-BOS-10/21-1: *Confirmation of the Minutes of the 9th Meeting of the Board of Studies held on 7th July, 2020.*

The BoS confirmed the Minutes of the 9th Meeting of the Board of Studies held on 7th July, 2020. (Annexure-I)

ITEM NO: ENV-BOS-10/21-2: *To place before the BoS for its approval, a revised structure the M.Sc. Environmental Science programme in the light of New Education Policy-2020. All the revisions made, time to time, in the syllabus of different courses of the M.Sc. Environmental Science programme as per the NEP-2020 guidelines will be reported to the upcoming BOS meetings.*

The BoS approved the revised structure the M.Sc. Environmental Science programme in the light of New Education Policy-2020. (Annexure-II)

ITEM NO: ENV-BOS-10/21-3: *To place before the BoS for its approval Adoption of Blended mode of learning in MSc Environmental Science programme and course work of PhD Environmental Science programme in the light of New Education Policy-2020.*

The BoS approved the Adoption of Blended mode of learning in MSc Environmental Science programme and course work of PhD Environmental Science programme in the light of New Education Policy-2020.

ITEM NO: ENV-BOS-10/21-4: *To place before the BoS for its approval Adoption of Multiple Entry-Exit system in MSc Environmental Science programme in the light of New Education Policy-2020.*

The BoS approved the Adoption of Multiple Entry-Exit system in MSc Environmental Science programme in the light of New Education Policy-2020.

ITEM NO: ENV-BOS-10/21-5: *To place before the BoS for its approval, the list of new courses to be introduced in the proposed revised structure of the MSc Environmental Science programme as per NEP-2020.*

The BoS approved the list of new courses to be introduced in the proposed revised structure of the MSc Environmental Science programme as per NEP-2020. (Annexure-III)

ITEM NO: ENV-BOS-10/21-6: *To place before the BoS for its approval, the list of Supervisor and Co-supervisors allotted to the following Research Degree Students admitted for Ph.D. degree programme in the session 2020-2021.*



BoS approved the allotment of Supervisor and Co-supervisors to the following Research Degree Students admitted to Ph.D. degree programme in the session 2020-2021 as follows:

| Sr. No. | Registration No. | Students Name | Supervisor Allotted | Co-Supervisor Allotted |
|---------|------------------|---------------------|--------------------------|---|
| 1. | CUHP20RDENV01 | Akshay | Dr. Dilbag Singh | |
| 2. | CUHP20RDENV03 | Dharneshwari Sharma | Prof. A.K.Mahajan | |
| 3. | CUHP20RDENV04 | Komal Kundal | Prof. A.K.Mahajan | |
| 4. | CUHP20RDENV04 | Priyanka | Prof. A.K.Mahajan | |
| 5. | CUHP20RDENV06 | Priyanka Chaudhary | Dr. Subhankar Chatterjee | |
| 6. | CUHP20RDENV07 | Richa Panjla | Prof. A.K.Mahajan | Dr. Sanjay Panday, Scientist, Central Ground Water Board, Ministry of Jal Shakti, Govt. of India, Dharmshala, H.P |
| 7. | CUHP20RDENV08 | Ritika Sharma | Dr. Dilbag Singh | |
| 8. | CUHP20RDENV09 | Sunidhi | Dr. Subhankar Chatterjee | |

In the case of Mr. Deepak Sharma (CUHP20RDENV02), the following facts have come to the notice of the BoS members regarding allocation of supervisor.

1. Statement received by the then head and dean of the department and school was received and recorded as **Annexure A**.
2. Statement received from Dr Pankaj Thakur former Associate Professor (Leave vacancy), Department of Environmental Sciences, Central University of Himachal Pradesh, Dharamshala (Currently Associate Professor, Jawaharlal Nehru University) as **Annexure B**.

DISCUSSION AND RESULATION

Based on the expertise of Dr Dilbag Singh, an Assistant Professor in the Department of Environmental Sciences, Central University of Himachal Pradesh will be the prospective supervisor of Mr Deepak Sharma (CUHP20RDENV02). The BoS further took the advice of Dr. Dilbag Singh regarding the fact: Even though Dr. Dilbag Singh gave his consent for supervising Mr Deepak Sharma in front of all the BOS members in the interest of student, but he has submitted that he already has exhausted his maximum number (04) of PhD students as per the UGC guideline.

It was finally resolved from the members that the candidate (Mr Deepak Sharma) can be permitted to do his research with Dr Dilbag Singh subject to the supernumerary PhD seat permission to him from the competent authority and accordingly he will make further association with Dr Pankaj Thakur as per the rules.



Annexure A

25/09/2021, 08:21

Yahoo Mail - Re: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

Re: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

From: Ambrish Mahajan (akmahajan@rediffmail.com)
To: dpant2003@yahoo.com; rajeev025singh@gmail.com
Cc: dilbagrana@gmail.com; thakurpankaj535@gmail.com
Date: Thursday, 23 September, 2021, 05:50 pm IST

Dear Dr Pant

Mr Deepak has joined as research scholar after getting recommendations from Dr Pankaj Thakur, who was faculty of the department (on lien)at that time. However Dr Pankaj Thakur was relieved from university on his selection in JNU as Associate Professor. Dr Pankaj was an expert in Nano Technology and we have similar expertise available is Dr Dilbag Singh so keeping in view the interest of student and his field of interest shown at the time of his admission. I recommend that Mr Deepak Sharma may kindly be allot to Dr Dilbag Singh with co supervision of Dr Pankaj Thakur.

Regards
Prof. A.K. Mahajan
Professor, ENV

From: rajeev singh <rajeev025singh@gmail.com>
Sent: Thu, 23 Sep 2021 17:27:38 GMT+0530
To: Ambrish Mahajan <akmahajan@rediffmail.com>
Subject: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

आदरणीय महोदय

मैं पर्यावरण विज्ञान विभाग के विभागाध्यक्ष के आदेशानुसार लिख रहा हूँ कि संकलित ईमेल प्राप्त करें कि

केंद्रीय विश्वविद्यालय हिमाचल प्रदेश के पर्यावरण विज्ञान विभाग के शोध छात्र श्री दीपक शर्मा से डॉ. पंकज ठाकुर के हस्ताक्षर के साथ प्रार्थना पत्र प्राप्त हुआ है। दीपक शर्मा का पी. एच. डी. में दाखिला आपके पर्यावरण विज्ञान विभाग में अधिष्ठाता तथा विभागाध्यक्ष कार्यकाल में हुआ था अतः : आपसे विनम्र अनुरोध है कि दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्ति के बारे में अपनी राय (Remarks) प्रदान करने की कृपा करें।

धन्यवाद

सादर

राजीव सिंह
डाटा एंटी ऑपरेटर
पर्यावरण विज्ञान विभाग
contact no. 9805202021



Annexure B

25/09/2021, 08:23

Yahoo Mail - Fwd: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

Fwd: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

From: rajeev singh (rajeev025singh@gmail.com)

To: dpant2003@yahoo.com

Date: Friday, 24 September, 2021, 05:41 pm IST

----- Forwarded message -----

From: Pankaj Thakur <chempank@gmail.com>

Date: Fri, Sep 24, 2021 at 4:50 AM

Subject: Re: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

To: rajeev singh <rajeev025singh@gmail.com>

Cc: <registrar@hpcu.ac.in>

Dear Rajeev Ji,

As per the information sought in your trailing email, please see below my responses:

1. I give my full consent with reference to the facts and requests presented in the application of Mr Deepak Sharma (PhD student) which I got in your trailing mail.
2. As I consented affirmatively to continue guiding Mr Deepak Sharma, I am seeking an NOC from my present University/Department. Also, because of strict Covid protocols here, it may take some time!
3. Since you have put forth the Ordinance 42 of the CUHP, therefore I intend to consult/request a few of the present Faculty members of the CUHP keeping in mind the common research interests and their availability as well.

Thanks

On Thu, Sep 23, 2021 at 5:16 PM rajeev singh <rajeev025singh@gmail.com> wrote:

आदरणीय महोदय

मैं पर्यावरण विज्ञान विभाग के विभागाध्यक्ष के आदेशानुसार लिख रहा हूँ कि संकलित ईमेल प्राप्त करें तथा इसी प्रार्थना पत्र के सम्बन्ध में कुछ महत्वपूर्ण तथ्य प्रस्तुत है:-

- (1) केंद्रीय विश्वविद्यालय हिमाचल प्रदेश के पर्यावरण विज्ञान विभाग के शोध छात्र श्री दीपक शर्मा से आपके हस्ताक्षर सहित प्रार्थना पत्र प्राप्त हुआ है जो कि इस ईमेल में संकलित है क्या आप इसके सम्बन्ध में सहमत हैं।
- (2) यदि आप सहमत हैं तो कृपया अपने विश्वविद्यालय / विभाग जिसमें आप अभी कार्यरत हैं उनसे एक अनापत्ति (NOC) प्रमाण पत्र केंद्रीय विश्वविद्यालय हिमाचल प्रदेश के पर्यावरण विज्ञान विभाग को देने की कृपा करें।
- (3) केंद्रीय विश्वविद्यालय हिमाचल प्रदेश के अध्यादेश 42 के अनुसार पर्यवेक्षक अपने विश्वविद्यालय का ही होना चाहिये। किसी दुसरे संस्थान / विश्वविद्यालय के विषय एक्सपर्ट को सह पर्यवेक्षक ही नियुक्त किया जा सकता है इसलिए आपसे अनुरोध है कि केंद्रीय विश्वविद्यालय हिमाचल प्रदेश के पर्यावरण विज्ञान विभाग में से किसी को दीपक शर्मा का पर्यवेक्षक नियुक्त होने की सहमति प्रदान करवाए तभी आपको सह-पर्यवेक्षक नियुक्त किया जा सके।

धन्यवाद

सादर

राजीव सिंह
डाटा एंटी ऑपरेटर
पर्यावरण विज्ञान विभाग



THE MEETING ENDED WITH A VOTE OF THANKS TO THE CHAIR.

Dr.Dilbag Singh

Dr.Subhankar Chatterjee

Dr.AnkitTandon

Dr.Vikram Singh

Prof. O.S.K.S. Sastri

Prof. A. K. Mahajan

Prof. Desh Raj Thakur

Prof. AL. Ramanathan

**Prof. Deepak Pant
(Chairman and Convener)**

Annexure-I

हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh

(Established under Central Universities Act 2009)
Dharamshala, Distt. Kangra, Himachal Pradesh- 176215
(Temporary Academic Block, Shahpur)



MINUTES

NINTH BOARD OF STUDIES MEETING
HELD ON 7TH JULY, 2020 AT 12.00 PM.

Venue: Seminar Hall, Temporary Academic Block,
CENTRAL UNIVERSITY OF HIMACHAL PRADESH,
Shahpur, District Kangra(HP)







हिमाचल प्रदेश केंद्रीय विश्वविद्यालय Central University of Himachal Pradesh

(Established under Central Universities Act 2009)
Dhoramshola, Distt. Kangra, Himachal Pradesh- 176215
(Temporary Academic Block, Shahpur)

Dated: 7th July, 2020

File No. EES/1-5 (Vol.II)/CUHP/....

MINUTES

The 9th Board of Studies (BOS) meeting of Department of Environmental Sciences was held on 7th July, 2020 at 12.00PM at Central University of Himachal Pradesh, Temporary Academic Block (TAB), Shahpur. The following were present:

| | | |
|----|--|---------------------|
| 1. | Prof. A. K. Mahajan, Professor&Head, Department of Environmental Sciences, Dean, School of Earth and Environmental Sciences | CONVENER & CHAIRMAN |
| 2. | Prof. O.S.K.S. Sastri, Professor & Dean, School of Physical and Material Sciences, Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) |
| 3. | Dr. Pankaj Thakur, Associate Professor, Department of Environmental Sciences, Central University of Himachal Pradesh | MEMBER |
| 4. | Dr. Subhankar Chatterjee, Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | MEMBER |
| 5. | Dr. Ankit Tandon Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |
| 6. | Dr. Dilbag Singh Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |

The following members attended the meeting on line due to Covid-19 situations:

| | | |
|----|--|-----------------------------|
| 1. | Prof. Desh Raj Thakur, Department of Bio Sciences, Himachal Pradesh University, Shimla-171005 | SUBJECT EXPERT (online) |
| 2. | Dr. Vikram Singh, Assistant Professor, Centre for Computational Biology & Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) on line |
| 3. | Dr. Anurag Linda Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE (Online) |

The following members were available on telephone because of Covid-19 situations:

| | | |
|----|--|---------------------------------|
| 1. | Prof. N. N. Mandal, Division of Molecular Medicine, Centenary Campus, Bose Institute, P-1/12 C.I.T. Scheme VIII-M Kolkata-700054 | SUBJECT EXPERT (by circulation) |
|----|--|---------------------------------|

Prof. A. K. Mahajan, Dean, School of Earth and Environmental Sciences (Convener & Chairman of the BOS) welcomed all the members and thanked them for being available for attending this meeting.

(Handwritten signatures)

THEREAFTER, THE AGENDA ITEMS WERE TAKEN UP AS UNDER:

Agenda Items:

ITEM NO: ENV-BOS-9/20-1: Confirmation of the Minutes of the 8th Meeting of the Board of Studies held on 7th June, 2019.

The BoS confirmed the Minutes of the 8th Meeting of the Board of Studies held on 7th June, 2019. (Annexure-I)

ITEM NO: ENV-BOS-9/20-2: To place before the BoS, a list of courses to be taught in the coming academic session for the M.Sc. Environmental Science program and for the course work of Research Degree students of the Department of Environmental Sciences

The BoS approved the list of courses to be taught in the coming academic session for the M.Sc. Environmental Science program and for the course work of Research Degree students of the Department of Environmental Sciences (Annexure-II)

ITEM NO: ENV-BOS-9/20-3: To place before the BoS, the matter regarding appointment of Supervisor and Co-supervisors to the following Research Degree Students admitted for Ph.D. degree programme in the session 2018-2019.

BoS approved the appointment of Supervisor and Co-supervisors to the following Research Degree Students admitted to Ph.D. degree programme in the session 2018-2019 as follows:

| Sr. No. | Name of Research Degree Student | Enrolment Number | Name of Supervisor |
|---------|---------------------------------|------------------|---------------------|
| 1 | Chhabeel | CUHP18RDENV01 | Dr. Ankit Tandon |
| 2 | Harsh Sharma | CUHP18RDENV02 | Prof. A. K. Mahajan |

ITEM NO: ENV-BOS-9/20-4: To place before the BOS the matter regarding the appointment of Prof. A. K. Mahajan as co-supervisor to the Ms. Sunanda Patial of Maharaja Agrasen University, Baddi, Solan, Himachal Pradesh as per the guidelines of UGC enlisted in the Sub Clause 6.4 of its Notification dated 5th May, 2016 for Minimum Standards and Procedure for Award of M.PHIL./PH.D degrees Regulations, 2016.

The BoS approved the appointment of Prof. A. K. Mahajan as co-supervisor to the Ms. Sunanda Patial of Maharaja Agrasen University, Baddi, Solan, Himachal Pradesh as per the guidelines of UGC enlisted in the Sub Clause 6.4 of its Notification dated 5th May, 2016 for Minimum Standards and Procedure for Award of M.PHIL./PH.D degrees Regulations, 2016.

ITEM NO: ENV-BOS-9/20-5: To place before the BoS, the matter regarding change of Supervisor and Co-supervisors of Ms. Shabnam (CUHP17RDENV10) as Prof. Mushtaq Ahmed (present Supervisor) has taken lien to join Central University of Jammu. Prof. Mushtaq Ahmed has been appointed as Supervisor by the last BOS and notified by Department on 08/03/2019. Later Prof Mushtaq Ahmed shifted to Central University Jammu in November 2019 on lien. Now Miss Shabnam

has requested vide her mail dated 24/5/2020 for change of supervisor for direct supervision. Prof. Mushtaq Ahmed has given his NOC mentioning that he is not in a position to guide her as he has retired to CUJ. At present Prof. Mushtaq Ahmed is supervisor and Prof. Deepak Pant is a co-supervisor. In the meantime Miss Shabnam has also send a request that she wanted to resign from Ph.D programme as she don't want to continue further. Submitted for discussion and approval please.

The BoS discussed the matter and resolved to appoint Prof. A. K. Mahajan as Supervisor (for Administrative Formalities) and Prof. Deepak Pant as Co-Supervisor (Subject Area Expert) for the Ph.D. research work of Miss. Shabnam. The BoS advised to send back the resignation request of Miss. Shabnam to her for re-consideration. This should be considering as supernumerary seat under Prof A.K. Mahajan.

ITEM NO: ENV-BOS-9/20-6: To place before the BOS, the matter regarding appointment of co-supervisors. The requests received from the faculty member (Dr. Ankit Tandon and Dr. Anurag Linda) of the Department for the appointment a Co-Supervisor for their Research Degree Students (Ms. Sarita Bamotra and Ms. Shikha Rawal respectively) of the Department admitted during the session 2016-2017 as per the guidelines of UGC enlisted in the Sub Clause 6.4 of its Notification dated 5th May, 2016 for Minimum Standards and Procedure for Award of M.PHIL./PH.D. Degrees Regulations, 2016.

The BoS approved the appointment of following co-supervisors for their Research Degree Students (Ms. Sarita Bamotra and Ms. Shikha Rawal) of the Department admitted during the session 2016-2017 as per the guidelines of UGC enlisted in the Sub Clause 6.4 of its Notification dated 5th May, 2016 for Minimum Standards and Procedure for Award of M.PHIL./PH.D. Degrees Regulations, 2016.

| S. No. | Name of Research Degree Student | Enrolment Number | Name of Supervisor | Name and Address of Co-Supervisor |
|--------|---------------------------------|------------------|--------------------|--|
| 1 | Sarita Bamotra | CUHP17RDENV09 | Dr. Ankit Tandon | Dr. Shweta Yadav, Department of Environmental Science, Central University of Jammu |
| 2 | Shikha Rawal | CUHP17RDENV12 | Dr. Anurag Linda | Dr. Pottakkal George Jose National Institute of Hydrology, Scientist-in- Charge, Western Himalayan Regional Centre, Flood Control Complex, Jammu Cantt. Jammu-180003 (J&K), INDIA |

(Handwritten signatures and initials)

ITEM NO: ENV-BOS-9/20-7: To place before the BOS the matter regarding change of supervisor under clause 12.1 of the ordinance of Ms. Kanika Mahajan (CUHP17RDENV05), R.D. student, admitted in the University during the session 2017-18 and presently doing Ph.D. under the supervision of Dr. Subhankar Chatterjee. A letter from Dr. Subhankar Chatterjee and Miss Kanika Mahajan are attached for kind consideration.

The BoS approved the change of supervisor and also approved the appointment of Prof. A. K. Mahajan as Supervisor with the condition that Ms. Kanika Mahajan will not use any data, any bacterial strain, any publication and any material which she has generated/used in Dr. Subhankar Chatterjee's lab, for her future PhD research/thesis and for any write-up/publication. She will not be allowed to carry any bacterial strain, any material from Dr. Subhankar Chatterjee's lab. She will also not be allowed to use the research topic she was working on in his group under his supervision. Before joining any other lab Ms. Kanika Mahajan will acquire an NOC and proper relieving letter from Dr. Subhankar Chatterjee.

She will start afresh with new topic for her PhD research under the supervision of Prof. A. K. Mahajan. The matter of co-supervisor has also been discussed as Prof. Mahajan has mentioned that he is not the subject expert. Prof. Mahajan has agreed to help the student so that she can complete her degree from the department of Environmental Sciences and need not to deregister. Since Prof. Mahajan has mentioned that he has already discussed the matter verbally with Dr. Sunil Thakur to be her co-supervisor and Dr. Sunil Thakur has also given his consent in writing. The BOS consider the request of Prof. Mahajan and also allowed him to consider Dr. Sunil Thakur as her co-supervisor. This should be considering as supernumerary seat under Prof. A.K. Mahajan.

The BoS also suggested that this case should be considered as an exceptional and one time case and this kind of practices (Change of supervisor on whims and fancies of students) in the department should be discouraged. Except some unavoidable circumstances department should not allow the PhD students to change the supervisor.

ITEM NO: ENV-BOS-9/20-8: To place before the BoS for approval of new course ENV 58 Regional (Indian) Environmental Policies (04 credits) for spring session 2020- 21.

The BoS approved the new course ENV 58 Regional (Indian) Environmental Policies (04 credits) for spring session 2020- 21. (Annexure-III)

ITEM NO: ENV-BOS-9/20-9: To Place before the BOS, prior assignment of Dr. Parikaj Thakur as supervisor/co-supervisor at his previous organization (Shoolani University) whereby he has a Ph.D.

[Handwritten signatures and initials]

student as Guide. The names of the students are Ms.Lavanya Tandon, Ms.Bhavna Sharma, Ms. Farah Menzer and Sanjay Thakur.

The BoS accorded its approval to Dr.Pankaj Thakur to continue his supervision/co-supervision to Ms. Lavanya Tandon, Ms. Bhavna Sharma, Ms. Farah Menzer and Sanjay Thakur at his previous organization (Shoolani University).

ITEM NO: ENV-BOS-9/20-10:To place before the BoS for approval the updated list of External Examiners for conducting practical/M.Sc. Dissertations Examinations and of the Department of Environmental Sciences.

The BoS discussed the matter and advised to abandon with such list of External Examiners. BoS empowered the Head of the Department to propose names of external examiners on the recommendation of the faculty concerned on ease to ease basis as and when it required to do so.

THE MEETING ENDED WITH A VOTE OF THANKS TO THE CHAIR.


07/07/2020
Dr.Dilbag Singh


Dr.Anurag Linda


07/07/2020
Dr. Ankit Fandon


07/07/2020
Dr.Subhanakar Chatterjee

Dr.Vikram Singh

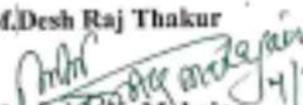

07/07/2020
Dr.Pankaj Thakur

Prof. O.S.K.S. Sastri

Prof. N. N. Mandal



Prof.Desh Raj Thakur


07/07/2020
Prof.Ambrish K. Mahajan
(Chairman and Convener)



Annexure-II

2 YEARS MASTER'S DEGREE PROGRAMME Eligibility: 3 Year Bachelor's Degree Programme

General Guideline

- The students who have 3 Years Bachelor's Degree are eligible for admission in this programme.
- The Department will offer 2 Years Master's Degree Programmes from the academic session 2021 – 2022 in line with the recommendations of National Education Policy – 2020.
- In order to stay in sync with the National Level institutions, the University will follow the guidelines of multiple entry and exit in academic programmes issued by UGC on July 29, 2021.
- The total number of credits will be a maximum of 20 in each semester and it will be followed strictly.
- A large component of IKS and Vocational/ Skill Courses will be offered at the Master's Degree level.
- All courses will be conducted in blended mode i.e. 80% offline and 20% online compulsorily in Master's Degree Programmes.
- Department Level Task Force will develop the complete structure of the programmes to be offered and it will design the syllabus of different courses with the help of all the teachers of the department as per the requirements.
- The vocational/skill based courses should be designed in the manner that the students may develop sufficient skill in their respective field at the exit level.
- Two courses on the Indian Knowledge System (IKS) will be introduced in the 1 st semester and 2nd semester respectively.
- 20% of contents in all the courses offered in each semester should be taught through online mode for which the experts will be invited from outside the University.
- For the online mode of teaching, the experts will be invited for online delivery of a Unit of each course in all semesters. These experts may be invited from academia or other than academia. Each expert is expected to deliver at least 2 sessions of 90 minutes each for 4 credit courses and for 2 credit courses; it should be at least 1 session of 90 minutes. After the delivery of the content of the particular unit by the external expert through online mode, the teacher concerned will also discuss the unit in the face to face mode.
- The expert will be decided by the concerned faculty member, who is teaching the particular course. In each department, the Head of the Department having discussion with the faculty members may invite a maximum of one expert from abroad (if possible), for online lectures.
- The hybrid learning model will be adopted by the teachers during their classroom teaching, so that the students at distant places may also attend the class in real time.
- The Department will offer Value Added Courses (VAC) of 20 credits apart from their discipline-specific courses in each semester.



- The total courses of any Programme will have the weightage in the range of 50% to 60% for Theory and 40% to 50% for Practice.
- The 2nd year would be entirely devoted to research only as the student may go directly for PhD programme after completion of this course.

Detailed Frame-Work

| 1st Semester: | | | |
|--|--------------------|--|----------------|
| Course Type | Course Code | Course Name | Credits |
| Major Courses (10 Credits) | ENV 401 | Introduction to Ecology | 2 |
| | ENV 402a | Introduction to Earth Processes | 2 |
| | ENV 403a* | Introduction to Environmental Chemistry | 2 |
| | ENV 501 | Environmental Pollution and Human Health | 2 |
| | ENV 516 | Atmospheric Science | 2 |
| Minor Courses (4 Credits) | ENV 411 | Waste Management | 2 |
| | ENV 503 | Environmental Legislations: National and International | 2 |
| Vocational / Skill (4 Credits) | ENV 445 | Environmental Chemistry Laboratory | 2 |
| | ENV 418 | Ecology Laboratory | 2 |
| Indigenous Knowledge System (2 Credits) | XXX XXX | To be offered by University Level Committee | 2 |
| 2nd Semester: | | | |
| Course Type | Course Code | Course Name | Credits |
| Major Courses (12 Credits) | ENV 424 | Fundamentals of Remote Sensing | 2 |
| | ENV 432a* | Basics of Statistical Techniques | 2 |
| | ENV 524 | Environmental Impact Assessment | 2 |
| | ENV 404 | Energy & Environment | 2 |
| Value-Added Course | ENV 502 | Natural Hazard and Disaster Management | 4 |
| Minor Courses (4 Credits) | ENV 531 | Toxicology Laboratory | 2 |
| | ENV 447* | Computational Statistical Analysis Laboratory | 2 |
| Vocational / Skill (2 Credits) | ENV 571 | Remote Sensing and GIS Laboratory | 2 |
| Indigenous Knowledge System (2 Credits) | ENV 508 | Environmental Ethics | 2 |
| 3rd Semester: | | | |



| Course Type | Course Code | Course Name | Credits |
|--|-------------|--|---------|
| Major Courses Elective Specialization (4 Credits) | ENV 564 | Near Surface Geophysics | 4 |
| | ENV 523 | Toxic and Hazardous Waste Management | 4 |
| | ENV 582 | Atmospheric Chemistry and Physics | 4 |
| | ENV 557 | Bio resources and Environmental Biotechnology | 4 |
| | ENV 589* | Glacial Remote Sensing | 4 |
| | ENV 586 | Nano-Techniques and Applications in Environment | 4 |
| Minor Courses (4 Credits) | ENV 581 | Methods in Scientific Research | 4 |
| Vocational / Skill (4 Credits) | ENV 590* | Data Analysis Using GIS | 2 |
| | ENV 412 | Analytical Techniques | 2 |
| Research Work 8 Credits) | ENV 592* | Research Proposal Write-up | 4 |
| | ENV 593* | Literature Review for Environmental Science Research | 4 |
| 4th Semester: | | | |
| Course Type | Course Code | Course Name | Credits |
| Major Courses Elective Specialization (4 Credits) | ENV 594* | Chemistry of Toxicity and Detoxification | 4 |
| | ENV 560 | Meteorology & Climatology | 4 |
| | ENV 585a* | Applied Microbiology and Bioremediation | 4 |
| | ENV 509 | Glaciology | 4 |
| | ENV 588* | Advanced Environmental Nano-Technology | 4 |
| Minor Courses (4 Credits) | ENV 595* | Academic Writings | 2 |
| | ENV 595a* | Paper-Publications/Seminar-Conference Presentation at National Level | 2 |
| Vocational / Skill (4 Credits) | ENV 537 | Environmental Engineering | 2 |
| | ENV 591* | Data Analysis Tools for Environmental Science | 2 |
| Research Work (8 Credits) | ENV 575a* | MSc Dissertation | 8 |

* New Courses to be placed for discussion and approved by the BoS



Annexure-III

List of New Courses to be placed in the 10th meeting of BOS

| Course Code | Course Name | Credits |
|-------------|--|---------|
| ENV 403a | Introduction to Environmental Chemistry | 2 |
| ENV 432a | Basics of Statistical Techniques | 2 |
| ENV 447 | Computational Statistical Analysis Laboratory | 2 |
| ENV 508a | Indian Tradition and Environmental Ethics | 2 |
| ENV 575a | MSc Dissertation | 8 |
| ENV 585a | Applied Microbiology and Bioremediation | 4 |
| ENV 589 | Glacial Remote Sensing | 4 |
| ENV 590 | Data Analysis Using GIS | 2 |
| ENV 591 | Data Analysis Tools for Environmental Chemistry | 2 |
| ENV 592 | Research Proposal Write-up | 4 |
| ENV 593 | Literature Review for Environmental Science Research | 4 |
| ENV 594 | Chemistry of Toxicity and Detoxification | 4 |
| ENV 595 | Academic Writings | 2 |
| ENV 595a | Paper-Publications/Seminar-Conference Presentation at National Level | 2 |



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय

(शाहपुर परिसर, डाक घर शाहपुर, जिलाकाँगड़ा - १७६२०६)

Central University of Himachal Pradesh

Shahpur Campus, P.O. - Shahpur, District - Kangra, Himachal Pradesh-176206



MINUTES

ELEVENTH MEETING OF THE BOARD OF STUDIES

OF THE DEPARTMENT OF ENVIRONMENTAL SCIENCES

HELD ON 13th DECEMBER 2021 AT 11.30 AM onwards.

Venue:

SEMINAAR HALL (CUHP, Shahpur Campus)

ONLINE - GOOGLE MEET (<http://meet.google.com/iet-rsbb-kxb>)

Amrita Singh
13 Dec 2021

हिमाचल प्रदेश केंद्रीय विश्वविद्यालय

[Signature]

Amrita Singh
13/12/2021

[Signature]

[Signature]

[Signature]



(शाहपुर परिसर, डाक घर शाहपुर, जिलाकाँगड़ा - १७६२०६)

Central University of Himachal Pradesh

Shahpur Campus, P.O. - Shahpur, District - Kangra, Himachal Pradesh-176206

File No. EES/1-5 (Vol.II)/CUHP/20/

Dated: 13rd December 2021

MINUTES

The 11th meeting of the Board of Studies (BOS) of the Department of Environmental Sciences was held Offline/Online on 13th December, 2021 at 11:30 AM onwards at SEMINAAR HALL (CUHP, Shahpur Campus) and ONLINE Google Meet platform (<http://meet.google.com/iet-rsbb-kxb>). The following members/invitees attended the meeting:

| | | |
|-----|---|---------------------------------|
| 1. | Prof. Deepak Pant , Professor & Head, Department of Environmental Sciences, Dean, School of Earth and Environmental Sciences | CONVENER & CHAIRMAN |
| 2. | Prof. AL. Ramanathan , School of Environmental Sciences, Jawaharlal Nehru University, New Delhi - 110067 | SUBJECT EXPERT (Online) |
| 3. | Prof. Desh Raj Thakur , Department of Bio Sciences, Himachal Pradesh University, Shimla-171005 | SUBJECT EXPERT |
| 4. | Prof. A. K. Mahajan , Department of Environmental Sciences, School of Earth and Environmental Sciences Central University of Himachal Pradesh | MEMBER |
| 5. | Prof. Pradeep Kumar , Department of Plant Science, School of Life Sciences, Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) (Online) |
| 6. | Dr. Sunil Kumar Kumar , Associate Professor, Department of Animal Sciences, School of Life Sciences, Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) (Online) |
| 7. | Dr. Anurag Linda Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | MEMBER |
| 8. | Dr. Ankit Tandon Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |
| 9. | Dr. Subhankar Chatterjee , Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |
| 10. | Dr. Dilbag Singh Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |

Prof. Deepak Pant, Dean, School of Earth and Environmental Sciences (Convener & Chairman of the BOS) welcomed all the members and thanked them for being available and for attending the meeting.

Deepak Pant
13th Dec 2021

Dr. Anurag Linda
13/12/2021

Chatterjee

Ankit Tandon
13/12/2021



THERE AFTER, THE AGENDA ITEMS WERE TAKEN UP AS UNDER:

Agenda Items:

ITEM NO: ENV-BOS-11/21-1: *Confirmation of the Minutes of the 10th Meeting of the Board of Studies.*

The BoS confirmed the Minutes of the 10th Meeting of the Board of Studies held on 13th December 2021. (Annexure-I)

ITEM NO: ENV-BOS-11/21-2: *To place before the BoS for its approval of synopsis of various Research Degree Students whose supervisor allotment was made on 10th BoS and other special/ pending cases.*

The BoS approved the Synopsis of various Research Degree Students after implementing suggested changes in the 11th Meeting of the Board of Studies held on 13th December 2021. (Annexure-II)

ITEM NO: ENV-BOS-11/21-3: *To place before the BoS for its approval regarding adoption of IKS course in the light of New Education Policy-2020 and the direction of Hon'ble Vice Chancellor.*

The BoS approved the adoption of IKS course in the light of New Education Policy-2020 and the direction of Hon'ble Vice Chancellor. (Annexure-III)

ITEM NO: ENV-BOS-11/21-4: *To place before the BoS for its approval, of remitting the name of Prof Sabu Thomas as co-supervisions in the PhD work of Miss Anvita Sheel as recommend from RAC.*

The BoS authorised the Dean, School of Earth and Environmental Sciences to make a final communication regarding the above case and thereafter final decision will be taken and will be intimated to the BOS member respectively.

THE MEETING ENDED WITH A VOTE OF THANKS TO THE CHAIR.

Dr. Dilbag Singh
(Special Invitee)

Dr. Ankit Tandon
(Special Invitee)
13/12/2021

Prof. Pradeep Kumar
(Member- VC Nominee)
online

Dr. Anurag Linda
(Member)
13th Dec 2021

Prof. Desh Raj Thakur
(Subject Expert)

Dr. Subhankar Chatterjee
(Special Invitee)

Dr. Sunil Kumar Kumar
(Member- VC Nominee)
online

Prof. A. K. Mahajan
(Member)
13/12/2021

Prof. AL. Ramanathan
(Subject Expert) online

Prof. Deepak Pant
(Chairman and Convener)



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh

(Established under Central Universities Act 2009)

Dharamshala, Distt. Kangra, Himachal Pradesh- 176215

(Shahpur Campus, Shahpur, Kangra, Himachal Pradesh, India - 176206)



MINUTES

**TENTH MEETING OF THE BOARD OF STUDIES
OF THE DEPARTMENT OF ENVIRONMENTAL SCIENCES
HELD ON 25TH SEPTEMBER, 2021 AT 11.45 AM onwards.**

Venue: ONLINE - GOOGLE MEET



हिमाचल प्रदेश केंद्रीय विश्वविद्यालय Central University of Himachal Pradesh

(Established under Central Universities Act 2009)
Dharamshala, Distt. Kangra, Himachal Pradesh- 176215
(Shahpur Campus, Shahpur, Kangra, Himachal Pradesh, India - 176206)

File No. EES/1-5 (Vol.II)/CUHP/....

Dated: 25th September, 2021

MINUTES

The 10th meeting of the Board of Studies (BOS) of the Department of Environmental Sciences was held Online on 25th September, 2021 at 11.45 AM onwards on Google Meet platform. The following members/invitees attended the meeting:

| | | |
|----|--|---------------------|
| 1. | Prof. Deepak Pant , Professor & Head, Department of Environmental Sciences, Dean, School of Earth and Environmental Sciences | CONVENER & CHAIRMAN |
| 2. | Prof. AL. Ramanathan , School of Environmental Sciences, Jawaharlal Nehru University, New Delhi - 110067 | SUBJECT EXPERT |
| 3. | Prof. Desh Raj Thakur , Department of Bio Sciences, Himachal Pradesh University, Shimla-171005 | SUBJECT EXPERT |
| 4. | Prof. A. K. Mahajan , Professor, Department of Environmental Sciences, Central University of Himachal Pradesh | MEMBER |
| 5. | Prof. O.S.K.S. Sastri , Professor, School of Physical and Material Sciences, Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) |
| 6. | Dr. Vikram Singh , Assistant Professor, Centre for Computational Biology & Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh. | MEMBER (VC NOMINEE) |
| 7. | Dr. Ankit Tandon Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |
| 8. | Dr. Subhankar Chatterjee , Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |
| 9. | Dr. Dilbag Singh Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | SPECIAL INVITEE |

The following members could not attend the meeting:

| | | |
|----|---|--------|
| 1. | Dr. Anurag Linda Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh. | MEMBER |
|----|---|--------|

Prof. Deepak Pant, Dean, School of Earth and Environmental Sciences (Convener & Chairman of the BOS) welcomed all the members and thanked them for being available and for attending the meeting.



THEREAFTER, THE AGENDA ITEMS WERE TAKEN UP AS UNDER:

Agenda Items:

ITEM NO: ENV-BOS-10/21-1: *Confirmation of the Minutes of the 9th Meeting of the Board of Studies held on 7th July, 2020.*

The BoS confirmed the Minutes of the 9th Meeting of the Board of Studies held on 7th July, 2020.(Annexure-I)

ITEM NO: ENV-BOS-10/21-2: *To place before the BoS for its approval, a revised structure the M.Sc. Environmental Science programme in the light of New Education Policy-2020. All the revisions made, time to time, in the syllabus of different courses of the M.Sc. Environmental Science programme as per the NEP-2020 guidelines will be reported to the upcoming BOS meetings.*

The BoS approved the revised structure the M.Sc. Environmental Science programme in the light of New Education Policy-2020.(Annexure-II)

ITEM NO: ENV-BOS-10/21-3: *To place before the BoS for its approval Adoption of Blended mode of learning in MSc Environmental Science programme and course work of PhD Environmental Science programme in the light of New Education Policy-2020.*

The BoS approved the Adoption of Blended mode of learning in MSc Environmental Science programme and course work of PhD Environmental Science programme in the light of New Education Policy-2020.

ITEM NO: ENV-BOS-10/21-4: *To place before the BoS for its approval Adoption of Multiple Entry-Exit system in MSc Environmental Science programme in the light of New Education Policy-2020.*

The BoS approved the Adoption of Multiple Entry-Exit system in MSc Environmental Science programme in the light of New Education Policy-2020.

ITEM NO: ENV-BOS-10/21-5: *To place before the BoS for its approval, the list of new courses to be introduced in the proposed revised structure of the MSc Environmental Science programme as per NEP-2020.*

The BoS approved the list of new courses to be introduced in the proposed revised structure of the MSc Environmental Science programme as per NEP-2020.(Annexure-III)

ITEM NO: ENV-BOS-10/21-6: *To place before the BoS for its approval, the list of Supervisor and Co-supervisors allotted to the following Research Degree Students admitted for Ph.D. degree programme in the session 2020-2021.*



BoS approved the allotment of Supervisor and Co-supervisors to the following Research Degree Students admitted to Ph.D. degree programme in the session 2020-2021 as follows:

| Sr. No. | Registration No. | Students Name | Supervisor Allotted | Co-Supervisor Allotted |
|---------|------------------|---------------------|-------------------------|--|
| 1. | CUHP20RDENV01 | Akshay | Dr.Dilbag Singh | |
| 2. | CUHP20RDENV03 | Dharneshwari Sharma | Prof.A.K.Mahajan | |
| 3. | CUHP20RDENV04 | KomalKundal | Prof.A.K.Mahajan | |
| 4. | CUHP20RDENV04 | Priyanka | Prof.A.K.Mahajan | |
| 5. | CUHP20RDENV06 | Priyanka Chaudhary | Dr.Subhankar Chatterjee | |
| 6. | CUHP20RDENV07 | RichaPanjla | Prof.A.K.Mahajan | Dr. Sanjay Panday, Scientist, Central Ground Water Board, Ministry of Jal Shakti, Govt. of India, Dharmshala, H.P |
| 7. | CUHP20RDENV08 | Ritika Sharma | Dr.Dilbag Singh | |
| 8. | CUHP20RDENV09 | Sunidhi | Dr.SubhankarChatterjee | |

In the case of Mr. Deepak Sharma (CUHP20RDENV02), the following facts have come to the notice of the BoS members regarding allocation of supervisor.

1. Statement received by the then head and dean of the department and school was received and recorded as **Annexure A**.
2. Statement received from Dr Pankaj Thakur former Associate Professor (Leave vacancy), Department of Environmental Sciences, Central University of Himachal Pradesh, Dharamshala (Currently Associate Professor, Jawaharlal Nehru University) as **Annexure B**.

DISCUSSION AND RESULATION

Based on the expertise of Dr Dilbag Singh, an Assistant Professor in the Department of Environmental Sciences, Central University of Himachal Pradesh will be the prospective supervisor of Mr Deepak Sharma (CUHP20RDENV02). The BoS further took the advice of Dr.Dilbag Singh regarding the fact: Even though Dr.Dilbag Singh gave his consent for supervising Mr Deepak Sharma in front of all the BOS members in the interest of student, but he has submitted that he already has exhausted his maximum number (04) of PhD students as per the UGC guideline.

It was finally resolved from the members that the candidate (Mr Deepak Sharma) can be permitted to do his research with Dr Dilbag Singh subject to the supernumerary PhD seat permission to him from the competent authority and accordingly he will make further association with Dr Pankaj Thakur as per the rules.

Annexure A



25/09/2021, 08:21

Yahoo Mail - Re: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

Re: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

From: Ambrish Mahajan (akmahajan@rediffmail.com)
To: dpant2003@yahoo.com; rajeev025singh@gmail.com
Cc: dilbagrana@gmail.com; thakurpankaj535@gmail.com
Date: Thursday, 23 September, 2021, 05:50 pm IST

Dear Dr Pant

Mr Deepak has joined as research scholar after getting recommendations from Dr Pankaj Thakur, who was faculty of the department (on lien)at that time. However Dr Pankaj Thakur was relieved from university on his selection in JNU as Associate Professor. Dr Pankaj was an expert in Nano Technology and we have similar expertise available is Dr Dilbag Singh so keeping in view the interest of student and his field of interest shown at the time of his admission. I recommend that Mr Deepak Sharma may kindly be allot to Dr Dilbag Singh with co supervision of Dr Pankaj Thakur.

Regards
Prof. A.K. Mahajan
Professor, ENV

From: rajeev singh <rajeev025singh@gmail.com>
Sent: Thu, 23 Sep 2021 17:27:38 GMT+0530
To: Ambrish Mahajan <akmahajan@rediffmail.com>
Subject: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

आदरणीय महोदय

मैं पर्यावरण विज्ञान विभाग के विभागाध्यक्ष के आदेशानुसार लिख रहा हूँ कि संकलित ईमेल प्राप्त करें कि

केन्द्रीय विश्वविद्यालय हिमाचल प्रदेश के पर्यावरण विज्ञान विभाग के शोध छात्र श्री दीपक शर्मा से डॉ. पंकज ठाकुर के हस्ताक्षर के साथ प्रार्थना पत्र प्राप्त हुआ है। दीपक शर्मा का पी. एच. डी. में दाखिला आपके पर्यावरण विज्ञान विभाग में अधिष्ठाता तथा विभागाध्यक्ष कार्यकाल में हुआ था अतः आपसे विनम्र अनुरोध है कि दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्ति के बारे में अपनी राय (Remarks) प्रदान करने की कृपा करें।

धन्यवाद

सादर

राजीव सिंह
डेटा एंटी ऑपरेटर
पर्यावरण विज्ञान विभाग
contact no. 9805202021



25/09/2021, 08:23

Yahoo Mail - Fwd: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

Fwd: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

From: rajeev singh (rajeev025singh@gmail.com)

To: dpant2003@yahoo.com

Date: Friday, 24 September, 2021, 05:41 pm IST

----- Forwarded message -----

From: Pankaj Thakur <chemoank@gmail.com>

Date: Fri, Sep 24, 2021 at 4:50 AM

Subject: Re: दीपक शर्मा शोध छात्र पर्यावरण विज्ञान विभाग के पर्यवेक्षक नियुक्त करने के सम्बन्ध में।

To: rajeev singh <rajeev025singh@gmail.com>

Cc: <registrar@hpu.ac.in>

Dear Rajeev Ji,

As per the information sought in your trailing email, please see below my responses:

1. I give my full consent with reference to the facts and requests presented in the application of Mr Deepak Sharma (PhD student) which I got in your trailing mail.

2. As I consented affirmatively to continue guiding Mr Deepak Sharma, I am seeking an NOC from my present University/Department. Also, because of strict Covid protocols here, it may take some time!

3. Since you have put forth the Ordinance 42 of the CUHP, therefore I intend to consult/request a few of the present Faculty members of the CUHP keeping in mind the common research interests and their availability as well.

Thanks

On Thu, Sep 23, 2021 at 5:16 PM rajeev singh <rajeev025singh@gmail.com> wrote:

आदरणीय महोदय

मैं पर्यावरण विज्ञान विभाग के विभागाध्यक्ष के आदेशानुसार लिख रहा हूँ कि संकलित ईमेल प्राप्त करें तथा इसी प्रार्थना पत्र के सम्बन्ध में कुछ महत्वपूर्ण तथ्य प्रस्तुत हैं:-

(1) केंद्रीय विश्वविद्यालय हिमाचल प्रदेश के पर्यावरण विज्ञान विभाग के शोध छात्र श्री दीपक शर्मा से आपके हस्ताक्षर सहित प्रार्थना पत्र प्राप्त हुआ है जो कि इस ईमेल में संकलित है क्या आप इसके सम्बन्ध में सहमत हैं।

(2) यदि आप सहमत हैं तो कृपया अपने विश्वविद्यालय / विभाग जिसमें आप अभी कार्यरत हैं उनसे एक अनापत्ति (NOC) प्रमाण पत्र केंद्रीय विश्वविद्यालय हिमाचल प्रदेश के पर्यावरण विज्ञान विभाग को देने की कृपा करें।

(3) केंद्रीय विश्वविद्यालय हिमाचल प्रदेश के अध्यादेश 42 के अनुसार पर्यवेक्षक अपने विश्वविद्यालय का ही होना चाहिये। किसी दूसरे संस्थान / विश्वविद्यालय के विषय एक्सपर्ट को सह पर्यवेक्षक ही नियुक्त किया जा सकता है इसलिए आपसे अनुरोध है कि केंद्रीय विश्वविद्यालय हिमाचल प्रदेश के पर्यावरण विज्ञान विभाग में से किसी को दीपक शर्मा का पर्यवेक्षक नियुक्त होने की सहमति प्रदान करवाएं तभी आपको सह पर्यवेक्षक नियुक्त किया जा सके।

धन्यवाद

सादर

राजीव सिंह

हाटा एंटी ऑफ़िसर

पर्यावरण विज्ञान विभाग



THE MEETING ENDED WITH A VOTE OF THANKS TO THE CHAIR.

Dilbag Singh
(Dr. Dilbag Singh)

Subhankar Chatterjee
(Dr. Subhankar Chatterjee)

Ankur Tandon
(Dr. Ankur Tandon)

Approved through Email
(Dr. Vikram Singh)

Approved through Email
(Prof. O.S.K.S. Sastri)

Approved through Email
(Prof. A. K. Mahajan)

Approved through Email
(Prof. Desh Raj Thakur)

Approved through Email
(Prof. AL. Ramanathan)

Prof. Deepak Pant
~~Chairman and Convener~~
Head, Department of Environmental Sciences
हिमाचल प्रदेश केंद्रीय विश्वविद्यालय
Central University of Himachal Pradesh
अस्थायी शैक्षणिक ब्लॉक/Temporary Academic Block
शाहपुर, कांगड़ा (हि.प्र.)/Shahpur, Kangra (H.P.)-176206

Annexure-1



Annexure – II

| ENROLLMENT NO. | OLD TOPIC | REVISED TOPIC |
|----------------|--|---|
| CUHP17RDENV02 | Studies on long-term variations in rainfall characteristics over Indian regions | Studies on Long-term Variations in Rainfall Characteristics over Indian Subcontinent |
| CUHP17RDENV09 | Study of mass closure and source apportionment of PM _{2.5} aerosol over Jammu, India | Studies of Mass Closure and Source Apportionment of PM _{2.5} Aerosol In Jammu City of J&K (UT) India |
| CUHP20RDENV04 | Site Characterization of Kathua city of Kathua district, J&K, India using geophysical approaches for the upper 30 m depth | Site characterization using geophysical approaches for upper 30m soil column of Kathua city of J&K (UT) India |
| CUHP20RDENV03 | Seismic Hazard Analysis of North-West Himalaya with Special Reference to Reasi District (Reasi-Katra Belt) of Jammu Province, J&K, India. | Seismic Hazard Analysis of North-West Himalaya with Special Reference to Reasi-Katra Belt of J&K (UT), India |
| CUHP20RDENV07 | Hydro-chemical assessment of Groundwater, Springwater, and major water supply drains around Jawalamukhi town, District Kangra, North-West Himalaya | Hydro-chemical assessment of Groundwater, Spring water, and Surface water around Jawalamukhi, District Kangra, Himachal Pradesh |
| CUHP20RDENV05 | Site amplification study of Mohali city using Geophysical and Geotechnical approaches. | Studies on the site amplification of Mohali city by using Geophysical and Geotechnical approaches |
| CUHP18RDENV01 | Studies on Ozone dynamics over Indian region | Studies on the Ozone Dynamics over Indian Subcontinent |
| CUHP17RDENV12 | Assessment of Hydro Geochemical Status of Springs of Dharamshala and Kangra Block, Himachal Pradesh | Assessment of Hydro Geochemical Status of Springs of Dharamshala and Kangra Blocks, Himachal Pradesh, India |
| CUHP17RDENV05 | Integrated disease management of the Wet Bubble Disease in white button mushroom (<i>Agaricus bisporus</i>) | Integrated eco-friendly disease management of the Wet Bubble Disease in white button mushroom, <i>Agaricus bisporus</i> (Agaricaceae: Agaricales) |
| CUHP18RDENV02 | Site characterisation of Shimla city using ambient noise measurements and response analysis of built environment | Site characterisation of Shimla city using ambient noise measurements and spectral response analysis of built up environment |
| CUHP17RDENV11 | Glacier Dynamics of Ravi and Bhaga Basins Western Himalaya, India using Remote Sensing and Geospatial Tools | Glacier Dynamics of Ravi and Bhaga Basins of Western Himalaya, using Remote Sensing and Geospatial Tools |
| CUHP20RDENV01 | Study of Spatio-Temporal Variation in Atmospheric Ammonia over District Kangra, Himachal Pradesh. | Studies on Spatio-Temporal Variation in Atmospheric Ammonia over District Kangra of Himachal Pradesh |
| CUHP20RDENV08 | Metal Organic Framework based Composites for Electrochemical Sensing of Toxic Metal Ions | Studies on Metal Organic Framework based Composites for Electrochemical Detection of Toxic Metal Ions |
| CUHP17RDENV08 | Synthesis of Carbon Based Nanocomposite for Electrochemical Detection of Pharmaceutical Drugs | Studies of Carbon Based Nanocomposite for Electrochemical Detection of Pharmaceutical Drugs |
| CUHP20RDENV06 | Isolation of psychrotrophs from western Himalayas, Exploring their Biotechnological Applications | Studies on Isolation and Biotechnological Applications of Psychrotrophs from Western Himalayas |
| CUHP20RDENV09 | Bioremediation Study of Fluoroquinolone Antibiotics and <i>in-silico</i> Analysis of Antibiotic Degrading Microbial Enzymes | Bioremediation Studies of Fluoroquinolone Antibiotics and <i>in-silico</i> Analysis of Antibiotic Degrading Microbial Enzymes |
| CUHP20RDENV02 | Ecological Features of Atmospheric Nanoparticles and Green Synthesis of Nanoparticles as Alternative for Environmental Applications | Ecological Studies on Atmospheric Ultrafine Particles and Synthesis of Plant Derived Nanoparticles for Environmental Applications |

Anurag Kishor
13 Dec 2024

[Signature]

[Signature]
13/12/2024

[Signature]

[Signature]

[Signature]

[Signature]

Annexure III

फाइल सं: 1-1/हि.प्र.कें.वि./शै/2010/खंड/VIII/7578

हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय

Central University of Himachal Pradesh
(अकादमिक शाखा /Academic Branch)



धर्मशाला - 176215

दिनांक: 12 नवम्बर, 2021

अधिसूचना

माननीय कुलपति महोदय के अनुमोदन के अनुसार विश्वविद्यालय में सभी स्नातकोत्तर (Post-graduate) स्तर की डिग्री पूर्ण करने हेतु 02 क्रेडिट का कोर्स "भारतीय ज्ञान पद्धति [Bhartiya Knowledge System(IKS)] सत्र 2021-22 से लागू किया जाता है जिसके Course Contents निम्न प्रकार से है इसके Learning Outcomes अलग से अधिसूचित किये जायेंगे:

Credits: 2 (20 Hours)

UNIT -I: Bhāratīya Civilization and Development of Knowledge System (4 hours)
Antiquity of civilization, Discovery of the Saraswatī River, the Saraswatī-Sindhu Civilization, Traditional Knowledge System, The Vedas, School of Philosophy (6+3), Ancient Education System, the Takṣaśilā University, the Nālandā University

UNIT-II: Arts, Literature, and Scholars in Ancient Bharat (4 hours)
Art, Music, and Dance, Naṭarāja- A Masterpiece of Bhāratīya Art, Literature, Life and works of Agastya, Lopāmudrā, Ghoṣā, Vālmīki, Patañjali, Vedavyāsa, Yājñavalkya, Gārgī, Caraka, Suśruta, Kaṇāda, Kauṭilya, Pāṇini, Thiruvalluvar, Āryabhaṭa, Bhāskarācārya, Mādhavācārya.

UNIT-III: Ancient Bhartiya Contribution towards Science & Mathematics (4 hours)
Sage Agastya's Model of Battery, Vedic Cosmology and Modern Concepts, Concept of Zero and Pi, Number System, Pythagoras Theorem, and Vedic Mathematics; Kerala School for Mathematics and History of Culture of Astronomy, Astronomical ___ of day, year and Yuga.

UNIT-IV: Ancient Bhartiya Engineering, Technology & Architecture (4 hours)
Pre-Harappan and Sindhu Valley Civilization, Juices, Dyes, Paints and Cements, Glass and Pottery, Metallurgy, Iron Pillar of Delhi, Rakhigarhi, Mehrgarh, Sindhu Valley Civilization, Marine Technology, and Bet-Dwārka.

UNIT-V: Ancient Bhartiya Contribution in Environment & Health (4 hours)
Ethnic Studies, Life Science in Plants, Agriculture, Ecology and Environment, Āyurveda, Integrated Approach to Healthcare, Surgery, and Yoga, etc.

Amrinder Singh
13/11/2021


12/11/2021
(प्रो. विशाल सूद)

कुलसचिव(अतिरिक्त प्रभार)
दिनांक: 12 नवम्बर, 2021

पृष्ठांकन: समसंख्या।

प्रतिलिपि:

1. अधिष्ठाता छात्र कल्याण, हि.प्र.के.वि., धौलाधार परिसर-1, धर्मशाला, जिला काँगड़ा (हि.प्र.)।
2. विभिन्न स्कूलों के सभी अधिष्ठाता/ विभिन्न विभागों/केन्द्रों के सभी विभागाध्यक्ष/निदेशक, शाहपुर परिसर/धौलाधार परिसर-1&II, धर्मशाला/सप्त सिन्धु परिसर, देहरा, जिला काँगड़ा।
3. वित्त अधिकारी, हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय, प्रशासनिक ब्लॉक, धर्मशाला, जिला काँगड़ा।
4. परीक्षा नियंत्रक, हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय, प्रशासनिक ब्लॉक, धर्मशाला, जिला काँगड़ा।
5. जन-संपर्क अधिकारी, धौलाधार परिसर-1, हि.प्र.के.वि., धर्मशाला, जिला - काँगड़ा (हि.प्र.)।
6. माननीय कुलपति के सचिव, कुलपति सचिवालय, हि.प्र.के.वि., धर्मशाला, जिला - काँगड़ा (हि.प्र.)।
7. सहायक कुलसचिव, कुलपति सचिवालय - कृपया माननीय कुलपति महोदय के सूचनार्थ।
8. गार्ड फाइल।


12/11/2021

कुलसचिव (अतिरिक्त प्रभार)



Dr. Deepak Pant <dpant2003@hpcu.ac.in>

Minutes of 11th Board of Studies meeting

A.L. Ramanathan Ramanathan <alrjnu@gmail.com>
To: "Dr. Deepak Pant" <dpant2003@hpcu.ac.in>

Thu, Dec 16, 2021 at 3:43 PM

Ok go ahead prof Pant

AL.Ramanathan

[Quoted text hidden]

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Dr. AL Ramanathan,

Professor

School of Environmental Science,

Jawaharlal Nehru University,

New Delhi-110067, India

Tel: +911126704314

email.alr0400@mail.jnu.ac.in

<https://www.jnu.ac.in/content/ramki>

AL Ramanathan