Bringing Excellence to Students...
Principal’s Message

You are heartily welcome to SchEMS to avail a wider scope of learning opportunities. SchEMS is considered to be one of the best schools of the country which is contributing to higher education of the international standards since 1999.

Life at SchEMS is encouraging, stimulating and challenging. We have made the school a centre of excellence and a blend of academic environment to pursue professional courses and professional career, and a humanistic approach to inspire commitment to society. On the other hand, you will find a balanced blend of classroom learning and its application process.

During your study at SchEMS, you will be with a faculty who cares about you to fulfill your ambitions and dreams.

We provide an ideal environment for study and career planning for each student associated with us and prepare them to be competitive to face the modern world.

“During your study at SchEMS, you will be with a faculty who cares about you to fulfill your ambitions and dreams.”

Prof. Dr. Ram B. Khadka
Founder  Principal
SchEMS

School of Environmental Science and Management (SchEMS) started its journey with Pokhara University since 1999. SchEMS was established by a team of highly qualified and motivated professionals from multidisciplinary backgrounds, and their goodwill and recognition is not only at national level but also at international level.

SchEMS has been conducting Bachelor of Science and Masters of Science in Environmental Management (from 2000), Bachelor of Business Administration (from 2008), Training and Capacity Building Service, Course on Integrated Mountain Environment, and Research and Consultancy Services. From this year onwards SchEMS is also planning to conduct Executive Master of Business Administration (EMBA).

The main objective of SchEMS is “to prepare skilled human resources base on integrated environmental management and sustainable development in line with the contemporary need of the country in particular and that of the region in general”. SchEMS has close ties with international universities such as of People’s Republic of Bangladesh, Canada, The Netherlands, UK, USA and Australia.

SchEMS’s dynamic, cost-effective and practical programs offer state-of-the-art information that is tailored to suit the local conditions. The major opportunities and facilities at SchEMS include participatory and interactive teaching activities, scholarships to deserving students, opportunity to involve in research and consultancy works as interns and opportunities for the study in institutions abroad.
Vision
To become the center of academic excellence

Mission
• Develop and transfer knowledge
• Prepare highly skilled human resource
• Promote the academic programs with balanced theory and application
• Build capacity of the professionals, institutions, and individuals

Approach
• Undertaking of application-oriented programs
• Bringing in the dynamism into the programs
• Focusing on program that generates solution for and strengthening the society
• Enabling individuals and institutions in optimizing their capacity

Celebrating 15 Years of Academic Excellence
Environmental Management

SchEMS is running environmental management course at the undergraduate and graduate levels. As environmental management is a multi-disciplinary subject, this course gives due emphasis to social, cultural, economical and regulatory aspects of the environment. This way a balanced multi-disciplinary fields of knowledge are integrated to provide a comprehensive working knowledge on environmental management. It is based on scientific theories and principles but focused on application aspects of various tools for solving and managing environmental problems. It integrates all major aspects of biophysical as well as socio-economic environments. The highlights of this program are environmental economics, social science, management, mathematics, policies and laws. EIA, GIS and remote sensing, environmental monitoring and modeling are some of the major tools integrated into the program. Extensive field studies, case studies, projects, term papers, seminars and laboratory analysis is carried out to make the program a practical one.

Program Objective

The main objectives of the environmental management program are to:
• Offer courses and research studies covering fundamentals, tools and advanced courses on environmental management;
• Provide an opportunity for carrying out thesis or research using cross-cutting tools and state of-the-art information;
• Provide opportunity for students to acquire advanced knowledge on the subject and enhance individual skills and expertise, and
• Contribute to policy research and support the concerned institutions in the country.

Career Opportunities

With the enforcement of environmental protection legislation in Nepal, the government agencies at the central, regional and local levels require trained human resources in environmental management. Good career opportunities also exist in INGOs, NGOs and several other statutory and voluntary organizations. The donor agencies involved in development works also need such human resources.

“At SchEMS, you take your 1st step towards becoming an environmentalist, with a dynamic and supportive faculty by your side.”

Sanjay Kurmi | BSc | 2nd Semester
It is based on scientific theories and principles but focused on application aspects of various tools for solving and managing environmental problems. It integrates all major aspects of biophysical as well as socio-economic environments.
Course Outline (M.Sc.)

M.Sc. in Environmental Management is a 60 credit hours, four-semester course to be completed within a period of two years.

**Semester I:** Fundamental Knowledge Course (17 credit hours)

**Semester II:** Courses for Environmental Management Tools (17 credit hours)

**Semester III:** Advanced Courses (14 credit hours)

**Semester IV:** Thesis (12 credit hours)

### First Year

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<td>Environmental Economics (3)</td>
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<tr>
<td>SOC 503</td>
<td>Sociology and Cultural Component (3)</td>
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<td>ENV 504</td>
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<td>ENV 602</td>
<td>Energy, Environment and Economics (3)</td>
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<td>ENV 603</td>
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<td>ENV 604</td>
<td>Ecosystem Services and Climate Change (3)</td>
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<td>ENV 508</td>
<td>Environmental Management System (LCA, RA, CP, QMS) (3)</td>
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<td>ENV 509</td>
<td>Wildlife Management (2)</td>
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<td>MGT 510</td>
<td>Strategic Planning Conflict Management Consensus Building (3)</td>
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<tr>
<td>STT 511</td>
<td>Statistics, Quantitative Techniques and Data Management (3)</td>
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<td>ENV 512</td>
<td>GIS Application and Remote Sensing (3)</td>
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<tbody>
<tr>
<td>ENV 606</td>
<td>Thesis Work (12)</td>
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# Course Outline (B.Sc.)

The Bachelor Degree in Environmental Management is spanned over a period of eight semesters (four academic years) covering a total of 120 credit hours.

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<td>Introductory Chemistry (3)</td>
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<td>ENV 105</td>
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## Second Year: Basic course for Environment Management

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<td>Biodiversity and Biotechnology (3)</td>
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<td>Hydrology and Meteorology (3)</td>
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<table>
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<td>ECO 207</td>
<td>Environmental Economics and Trade (3)</td>
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<td>Environmental Engineering (3)</td>
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<td>MGT 209</td>
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<td>MGT 210</td>
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### Third Year: Environmental Management Tools and Techniques

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<td>ENV 213</td>
<td>Environmental Assessment Techniques (3)</td>
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<td>ENV 214</td>
<td>Environmental Monitoring (3)</td>
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<td>ENV 215</td>
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<td>ENV 216</td>
<td>Geo-Information Management (3)</td>
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### Semester VI 14 Credit Hours

| MGT 217    | Comprehensive Environmental Planning and Conflict Management (3) |
| ENV 218    | Disaster and Risk Assessment Techniques (3) |
| ENV 219    | Urban Development and Environmental Management (3) |
| ENV 220    | Integrated Watershed Management (3) |
| ENV 221    | Environmental Technology (2) |

### Fourth Year: Specialized Courses, Research and Application in Environmental Management

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<td>ENV 301</td>
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<td>Mountain Environment and Sustainable Development (3)</td>
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<td>RCH 303</td>
<td>Research Methodology (3)</td>
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<tr>
<td>ENV 304</td>
<td>Environmental Health and Sanitation (3)</td>
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<tr>
<td>ENV 305</td>
<td>Emerging Issues, Seminar and Proposal Writing (3)</td>
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</table>

### Semester VIII 12 Credit Hours

The activities related to thesis work are carried out in this semester. Mid-term progress evaluation and final examination are held.

| ENV 306      | Thesis Work (12) |

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“\[quote style="""
I feel very proud to be a part of SchEMS. It helps me to understand the nature of environment through the modern science. Inspiring teachers and its practical knowledge has always been fruitful to me."
\[quote style="""

Nisha Aryal | BSc | 6th Semester
Thesis

In the last semester of MSc/ BSc program, each student must carry out an independent research work and prepare a thesis report on the basis of his/her own original research findings. Thesis is compulsory for all students in order to complete the degree in environmental management. The research involves in-depth investigation on the proposed field or area of study with the application of science research methodology. A thesis advisor, a faculty member, or an expert in the related field from in-house or outside, will be appointed for each student.

The evaluation of thesis will be done, both internally and externally. The evaluation is carried out in three stages:
- Proposal writing, defense and plan of work 20%
- Mid-term progress of the research work 20%
- Final defense and submission of thesis report 60%

“I really enjoyed the course (Environment Management). It was fantastic to be taught by lecturers who are at the forefront of research in respective subjects.”

Sunil Tamang | BSc | 4th Semester

“The research involves in-depth investigation on the proposed field or area of study with the application of science research methodology.”
Further Studies

SchEMS has signed “Memorandum of Understanding” with universities and academic institutions of the region as well as abroad in order to avail opportunities to SchEMS students for further studies. Through these agreements a number of SchEMS graduates and undergraduates have joined the reputed universities and institutions.

Some of these are:
- University of Iowa, USA
- University of Chicago, USA
- Yale university, USA
- Middlesex University, UK
- Manchester University, UK
- Wageningen University, the Netherlands
- Faculty of Geo-Information Science and Earth Observation (ITC), Twente University, the Netherlands
- International Center for Integrative Studies, Maastricht University, the Netherlands
- University of Delaware, USA
- Washington University, USA
- Liverpool University, USA
- University of London, UK
- Aberdeen University, UK
- University of Sydney, Australia
- Independent University, Bangladesh

The understanding with above universities and institutions have been established for collaboration in research, further studies, and student exchange.

Student Council of SchEMS (SCOS)
SchEMS encourage students to initiate and actively participate in extra curricular and skill-enhancement activities. SchEMS provide guidance to the students and also supports them with required facilities for their endeavors. In this process, SCOS was formed and is actively conducting different interactive programs, which help the students to achieve objectives of learning.
Facilities

Library/Resource Center
SchEMS houses an extensive resource library with all basic textbooks and reference materials, accessible to all the students for the completion of their courses. Books are made available in proportionate copies. Furthermore, handouts are also provided to the students as per the requirement. Apart from these, journals, newsletters and others relevant periodicals are subscribed by SchEMS to keep students updated.

Environmental Monitoring Laboratory
SchEMS activities and researches are supported by and have direct access to the environmental monitoring laboratory, which has comprehensive and sophisticated equipment to carry out lab based analyses. The laboratory is capable of undertaking researches on air, water and soil quality using the most analytical approach. The laboratory also possesses a range of life–based equipment for accurate information, such as pH meter, conductivity meter and stack emission monitors.

Logistic Facilities
Printing and photocopy facilities are available to the students so that they can perform more efficiently in case they need reference materials for report preparation and others.

IT Room
Well maintained and updated computer laboratory is available for the students. It is open around the day so that students can use it to develop reports, prepare presentations and perform other tasks. Internet facility is made available so that students can update themselves and make quick correspondence with colleagues as well as faculty members for academic interaction and coordination.

“Astha Joshi | BSc | 2nd Semester
“SchEMS is where I could boost myself up and come forward.”
Scholarship

International and national institutions are also providing scholarships to the students studying at SchEMS in both Bachelors and Masters programs. SchEMS provides 50 and 25 percent tuition fee waiver to the students ranking respectively first and second in the semester end examination and to diligent students with poor economic status.

“SchEMS provided us an ideal environment of study and career planning. I’m glad that I’ve chosen a best one.”

Padam Raj Joshi | MSc | 2nd Semester

“With the enforcement of environmental protection legislation in Nepal, the enforcement agencies at the central, regional and local levels require trained human resources in environmental management.”
# Fee Structure 2013 (M.Sc.)

## First Year

### Semester I

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## Second Year

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**Grand Total (including university charges):** 258000/-

**Note:**
- Deposit is refunded only on successful completion of program.
- Field works will be organized as per the requirement of the course. Additional cost of field will be charged in the installment invoice respectively.
- Semester fees comprises: computer and internet services, internal examinations, Co-curricular activities, first aid and so on.
## Fee Structure 2013 (B.Sc.)

### First Year

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### Second Year

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<td><strong>Total</strong></td>
<td><strong>28000</strong></td>
<td><strong>17000</strong></td>
</tr>
</tbody>
</table>

### Grand Total (Including University Charges): 406500/-

### Note:
- Deposit is refunded only on successful completion of program.
- Field works will be organized as per the requirement of the course. Additional cost of field will be charged in the installment invoice respectively.
- Semester fees comprises: computer and internet services, internal examinations, Co-curricular activities, first aid and so on.
Application Procedure

Eligibility (M.Sc.)
The prospective individual with a Bachelor degree in science, forestry, agriculture engineering and other related technical subjects or equivalent from recognized institutions are eligible to enter into the MSc degree course in environmental management. Besides fulfilling the basic academic requirements, candidates should appear in an entrance examination to qualify for the M.Sc. Program.

Eligibility (B.Sc.)
The prospective individuals with an Intermediate of Science or +2 in science, forestry, agriculture and other related technical subjects or equivalent from recognized institutions are eligible to enter into the BSc degree course in environmental management. Besides fulfilling the basic academic requirements, candidates should appear in an entrance examination to qualify for the B.Sc. program.

A complete application form
- Certified copy of academic transcript of school level
- Certified copy of academic transcript of intermediate level
- Certified copy of academic transcript of bachelor level (for MSc application)
- Character certificate(s)
- Letter of recommendations from the institutions
- Original migration certificate (can be submitted during or after admission)
- A copy of citizenship certificate
## Faculties

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prof. Dr. Ram Bahadur Khadka</strong></td>
<td>PhD- Ecology, EIA, Environmental Management, Aberdeen University and Delhi University</td>
<td></td>
</tr>
<tr>
<td><strong>Mr. Shailendra Guragain</strong></td>
<td>EMBA- Project Management &amp; Organizational Development, Pokhara University</td>
<td></td>
</tr>
<tr>
<td><strong>Mr. Ajay B. Mathema</strong></td>
<td>MSc/ME, GIS, Remote Sensing, Environmental Engineering, Twente University, ITC, the Netherlands</td>
<td></td>
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<tr>
<td><strong>Prof. Dr. Tej Kumar Shrestha</strong></td>
<td>DSc/PhD-Wildlife Ecology, Tribhuan University</td>
<td></td>
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<tr>
<td><strong>Dr. Chakra Bahadur Khadka</strong></td>
<td>PhD-Economics, Tribhuan University</td>
<td></td>
</tr>
<tr>
<td><strong>Prof. Dr. Rhiddi Bir Singh</strong></td>
<td>PhD-Energy and Environment, Indian Institute of Technology, Delhi</td>
<td></td>
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<tr>
<td><strong>Prof. Dr. Khadga B. Thapa</strong></td>
<td>PhD-Hydrology, University of Roorkee, India</td>
<td></td>
</tr>
<tr>
<td><strong>Dr. Suman K. Shakya</strong></td>
<td>PhD-Applied Natural Science, Natural Resources Vienna, University, Austria</td>
<td></td>
</tr>
<tr>
<td><strong>Dr. Shambhu P. Kattel</strong></td>
<td>PhD-Anthropology, Tribhuan University</td>
<td></td>
</tr>
<tr>
<td><strong>Dr. Uttam Kunwar</strong></td>
<td>PhD-Environmental Chemistry, Strathclyde Scotland, UK</td>
<td></td>
</tr>
<tr>
<td><strong>Er. G.P. Gorkhaly</strong></td>
<td>MSc-Infrastructure Planning, Stuttgart University, Germany</td>
<td></td>
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<tr>
<td><strong>Er. Bhai Raja Manandhar</strong></td>
<td>ME-Environmental Engineering, Asian Institute of Technology, Bangkok</td>
<td></td>
</tr>
<tr>
<td><strong>Mr. Uttam Sagar Shrestha</strong></td>
<td>MA-Geography, Demography, Tribhuan University</td>
<td></td>
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<tr>
<td><strong>Er. Prabin Shrestha</strong></td>
<td>MSc-Infrastructure Planning, University of Stuttgart, Germany</td>
<td></td>
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<tr>
<td><strong>Er. Ashok Tuladhar</strong></td>
<td>MSc- Structural Engineering, Solid Waste Technology, Technical University of Aachen (RWTH), West Germany</td>
<td></td>
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<tr>
<td><strong>Mr. Deepak Raj Parajuli</strong></td>
<td>MSc. Environment, Kathmandu University</td>
<td></td>
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<tr>
<td><strong>Mr. Hari Gopal Shrestha</strong></td>
<td>MSc-Chemistry, Tribhuan University</td>
<td></td>
</tr>
<tr>
<td><strong>Mr. Ram R. Bhandari</strong></td>
<td>MPhil-Educational Leadership, MSc Environmental Science and Management, Pokhara University</td>
<td></td>
</tr>
<tr>
<td><strong>Mr. Prakash Amatya</strong></td>
<td>MSc-Environmental Technology (Rainwater Harvesting), Tribhuan University</td>
<td></td>
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<tr>
<td><strong>Mr. Tirtha Niraula</strong></td>
<td>MSc-Physics, Tribhuan University</td>
<td></td>
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<tr>
<td><strong>Mr. Ram D. Yadav</strong></td>
<td>MSc-Soil Information System, Twente University, ITC, the Netherlands</td>
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<tr>
<td><strong>Mr. Nawaraj Subedi</strong></td>
<td>MSc-Geo-information Management and Land Administration, Twente University, ITC, the Netherlands</td>
<td></td>
</tr>
<tr>
<td><strong>Mr. Sushil M. S. Pradhan</strong></td>
<td>MSc-Environmental Microbiology, Tribhuan University</td>
<td></td>
</tr>
</tbody>
</table>
Mr. Surendra Lal Shrestha  
MA-Economics  
Tribhuvan University  

Mr. Jeevan Poudel  
MA-Anthropology  
Tribhuvan University  

Mr. Madhukar Upadhya  
MSc-Watershed Science  
Tribhuvan University  

Mr. Babu Ram Shrestha  
MSc-Regional Planning, Germany  
Asian Institute of Technology, Bangkok  

Mr. Sunil Raj Poudel  
MSc-Environmental Geology  
Tribhuvan University  

Mrs. Mani Gorkhali  
MA-Mathematics  
Tribhuvan University  

Mr. Laxman Mainali  
MSc-Environmental Law  
University of Sydney, Australia  

Mr. Jeevnath Lamshal  
MA-English  
Tribhuvan University  

Mr. Hari Dutta Joshi  
MSc-Environment Science and Health  
Tribhuvan University  

Mr. Devi Chandra Pokharel  
MSc-Forestry  
Asian Institute of Technology, Bangkok  

Mr. Rajiv Ghimire  
MSc- Environment Science  
Tribhuvan University  

Ms. Gauri Shrestha  
MSc- Statistics  
Associate Professor  
Tribhuvan University  

Mr. Tika Ram Poudel  
MSc-Geology  
Tribhuvan University  

Dr. Bikram Tamang  
PhD, Ecosystem Services  
Kiel University, Germany  

Ms. Nawang C. Sherpa  
MSc- Environmental Management, SchEMS  
Pokhara University,  
MSc- Environmental Science,  
Wageningen University,  
the Netherlands  

Mr. Ajit Shrivastav  
MSc Environmental Management  
SchEMS, Pokhara University