




Seismology-at-school in Nepal

Educational aspects

Unil



Shiba SUBEDI
 PhD Student
 Institute of Earth Science
 University of Lausanne
 &
 Program Leader
 Seismology-at-school in Nepal








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Introduction and background information

Education in Nepal

Level	Class	School	Student	Student age(±1)
Basic	1-8	34,920	6,968,025	5-13
Secondary	9-12	9,379	1,451,486	14-17
University	>12	9/1,369	406,027	≥ 18

Ministry of education report, 2016

General information:

- ✓ School starting age for children: 5 years, but not enforced
- ✓ Literacy rate: 64%. Male 76%, Female 53%
- ✓ Academic year: mid-April to mid-March
- ✓ Two types of schools: **Community (82%)** and **Private (18%)**
- ✓ Σ 8.4 million people are in schools out of Σ 28.9 million population
- ✓ In western Nepal, the area for this study, Σ 22% schools (**76%/24%**) & Σ 20% student (**77% /23%**)

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Education in Nepal

1. Measures of managing earthquake and minimizing its risk
 A sudden, violent shaking of earth is called earthquake. Earthquake occurs due to different reasons. The earthquake causes loss of life of human and animals, destroys the developmental infrastructure. Thus, different measures should be adopted to protect life and property from earthquake.

Science and Environment, class - 8 197

General information: Ministry of education report, 2016

- ✓ School starting age for children: 5
- ✓ Literacy rate: 64%. Male 76%, Female 52%
- ✓ Academic year: mid-April to mid-March

!! No earthquake education in the school's curriculum. !!

- ✓ Σ 8.4 million people are in schools out of Σ 28.9 million population
- ✓ In western Nepal, the area for this study, Σ 22% schools (76%/24%) & Σ 20% student (77%/23%)


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Level of knowledge


Question: What is the cause of earthquake?

Role of Fish or religious view




Age: >60

Role of Fish or religious view




Age: 40-60

Actually, I don't know



Age: 25-40

I don't know (>50% Earth is moving (students))



Age: <18

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Project aim : Education

- ✓ School selection
- ✓ Educational activities in schools
 - Survey
 - Special lectures for different age groups
 - Lectures adopted in Nepali language
 - Animation and videos for better understanding

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Project aim : Education

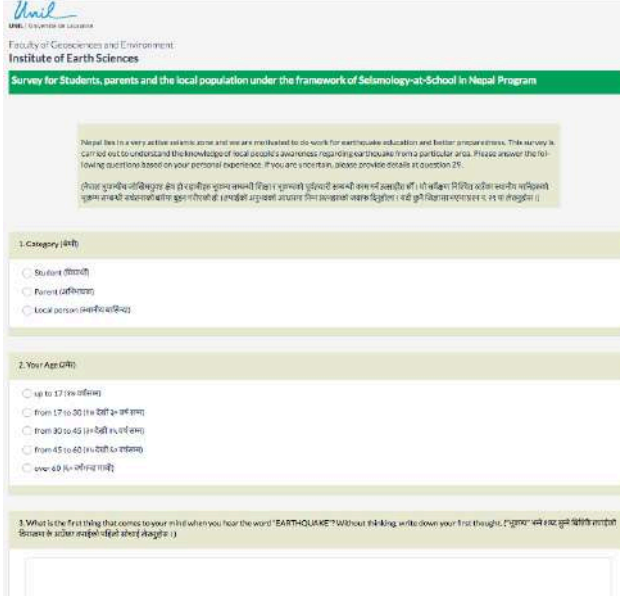
Survey

The survey is made to get the knowledge

- Before the program
- During the program
- After the program

Survey is available in English and Nepali languages.

We encourage to fill the survey questionnaire available on www.seismoschoolnp.org/survey/



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TALK 5: Seismology at School in Nepal, educational aspects - Shiba Subedi

Project aim : Education

Survey

4. Did you feel the big earthquake that happened in 2015 AD? (बि. सं. २०७३ सालका एक्के भूकम्प तपाईंने महशुस गर्नुभयो?)

Yes (हो)

No (हैन)

5. What did you feel / experience? You can tick more than one reply. (तपाईंले के महशुस/अनुभव गर्नुभयो? यहाँ मन्दा बढी उभ दिन सलुहुनु सक्छ।)

Check all that apply

shaking of the ground (भूतल हल्लिँदा)

rattling of the glass (सिँगा चर्किया)

moving of the furniture (हल्लिँदा)

swinging of the lights (बल्बिँदा)

light damage to structures (संरचनाहरूमा हल्ला लाग्यो)

Strong shaking (अतिशय, उच्च, कडा)

6. What did you do? (तपाईंले के गर्नुभयो?)

Check all that apply

I ran out of the building (म भवन बाहिर दौडिएको थिएँ।)

I hid under the table (म टेबल मुनि लुकेको थिएँ।)

I stood next to the wall, or under the doorframe (म पर्खालको आड लागेर उभिएँ अथवा ढोकाको ढोकोस मुनी बसेँ।)

I froze / didn't know what to do (म स्तब्ध भएँ/ के गर्ने भन्ने थाहा नभयो।)

Nothing as I did not feel it very much (कसै अझुवाँ लागेन।)

8. In your opinion, what should be the cause of an earthquake? (तपाईंको विचारमा भूकम्पको कारण के हुन सक्छ?)

Check all that apply

moving planet (पृथ्वीको चल्नु)

plate tectonics (पृथ्वीको सतहभित्रको घट्टान सर्नु)

energy beneath earth (पृथ्वी भित्रको शक्ति)

role of fish (माछाको भुमिका)

God is not happy (भावात खुसि नभएको)

9. What could be your condition, if there was an earthquake of magnitude 8 in Nepal? (विवेकता तैयारिँदा भूकम्पको बल ८ भएमा तपाईंको अवस्था के हुन सक्छ?)

Check all that apply

I could get hurt (म घाइते हुन सक्छु।)

I could be buried alive (म जिवितै धुँसको हुन सक्छु।)

My home could collapse (मेरो घर ढल्किनेको हुन सक्छो।)

I could lose the people I love (मेरो मनको प्रियजनहरू गुमाउन सक्छु।)

I could die (मेरो मृत्यु हुन सक्छो।)

10. What do you think, how likely is the occurrence of an earthquake larger than the 2015 Gorkha earthquake in your life? (तपाईंको विचारमा कतिको देखि भूकम्प/क्याम्प भएमा।)

Impossible (असम्भव) (0%)

Very unlikely (अति कम सम्भावना) (10%)

Unlikely (कम सम्भावना) (30%)

Likely (सम्भावना) (70%)

Most likely (धेरै सम्भावना) (90%)

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Project aim : Education

Survey

12. In case of an earthquake, do you know where all the doors are to exit? (भूकम्पको समयमा बाहिर जाने ढोकाहरू कहाँ-कहाँ छन्, तपाईंलाई थाहा छ?)

Yes (थाहा छ)

No (थाहा छैन)

13. Do all the members of your family know exactly what to do and where to go at the time of an earthquake? (के तपाईंको परिवारको सदस्यलाई भूकम्पको समयमा के गर्ने र कहाँ जाने भन्ने थाहा छ?)

Yes (थाहा छ)

No (थाहा छैन)

Partially (अलि भन्ने थाहा छ)

14. Do you have alternate way(s) to contact your family in case the phone lines within the area are down? (भूकम्पको समयमा तपाईंको क्षेत्रमा फोन लाइन बिग्रिएमा आफ्नो परिवारसँग सम्पर्क गर्ने वैकल्पिक माध्यमहरू छैनन्?)

Yes (छ)

No (छैन)

15. Do you know you should not call others after an earthquake, to leave the lines available for rescue operations? (के तपाईंलाई भूकम्प भएपछि उहाँ प्रमाणी तेल्लावाको लागि अनावश्यक फोन सम्पर्क गरी फोन लाइन व्यस्त राख्नु हुँदैन भन्ने थाहा छ?)

Yes (थाहा छ)

No (थाहा छैन)

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Survey

26. Earthquake-related knowledge (भूकम्प सम्बन्धी ज्ञान)
 Check all that apply

- I know when an earthquake will occur (भूकम्प कतिबेला जान्छ भन्ने कुरा मलाई थाहा छ ।)
- I know earthquakes cannot be prevented (भूकम्पको रोकथाम गर्न सकिँदैन भन्ने कुरा मलाई थाहा छ ।)
- I have participated in disaster risk education training or workshop (मैले विपद् व्यवस्थापन सम्बन्धी शिक्षा/तालिममा भाग लिएको छु ।)

27. Earthquake preparedness (भूकम्पको तयारी)
 Check all that apply

- I think to come across an earthquake and to remain alive depends on our luck (सतर्कै के लाग्छ भने भूकम्पमा नर्नु र बाँच्नु हाम्रो भाग्यमा भरपर्छ ।)
- I know the importance of disseminating experiences or knowledge of earthquakes (भूकम्प सम्बन्धी शिक्षा अथवा तसको अनुभवको महत्व मलाई थाहा छ ।)
- I know the government will provide enough facilities after an earthquake and we will be safe (भूकम्पको विपद्पछि सरकारले प्रस्तुत सुविधा प्रदान गर्छ र हामीलाई कुनै समस्या हुँदैन भन्ने कुरा मलाई थाहा छ ।)
- I am confident for reconstruction activities from the government after a disaster (भूकम्पको विपद्पछि सरकारले पुन निर्माण गर्छ भन्ने कुरा मलाई विश्वास लाग्छ ।)
- I know the importance of talking about disasters with neighbours, friends and colleagues (भूकम्पको बारेमा छिमेकी र साथीभाइसँग छलफल गर्नुको महत्व मलाई थाहा छ ।)
- I used to listen experts /Disaster Risk Reduction leaders who work or do activities for disaster risk reduction (मैले विपद् जोखिम कम गर्ने नेतृत्वसँग मिलेर विपद् व्यवस्थापनमा भाग लिएको छु ।)

29. If you want to send us any information, please write here. (एदि जानकारी हामीलाई पठाउन चाहनु हुन्छ भने यहाँ लेख्नुहोस् ।)

30. If you are willing to share some information about yourself, please fill the fields below. This is not mandatory and all information you may provide will be treated confidential according to applicable rules and regulations. (एदि जानकारी आफ्नै बारेमा केहि जानकारी दिन चाहनुहुन्छ भने तलको कालि ठाउँ भर्नुहोस् । यो अनिवार्य हैन, तयदले दिएको सबै जानकारी जसकोहिदर आर हुने पनि प्रयोगको लागि प्रयोग गरिने हैन ।)

30.1. Address (ठेगो):

30.2. Ward no (विर्दे नं):

30.3. District (जिल्ला):

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Project aim : Education

Special lectures for different age groups


Students are highly interested to know about the earthquake.

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Project aim : Education

Special lectures for different age groups

➤ In some case, class leaders (classroom monitors) are selected for the special lectures.



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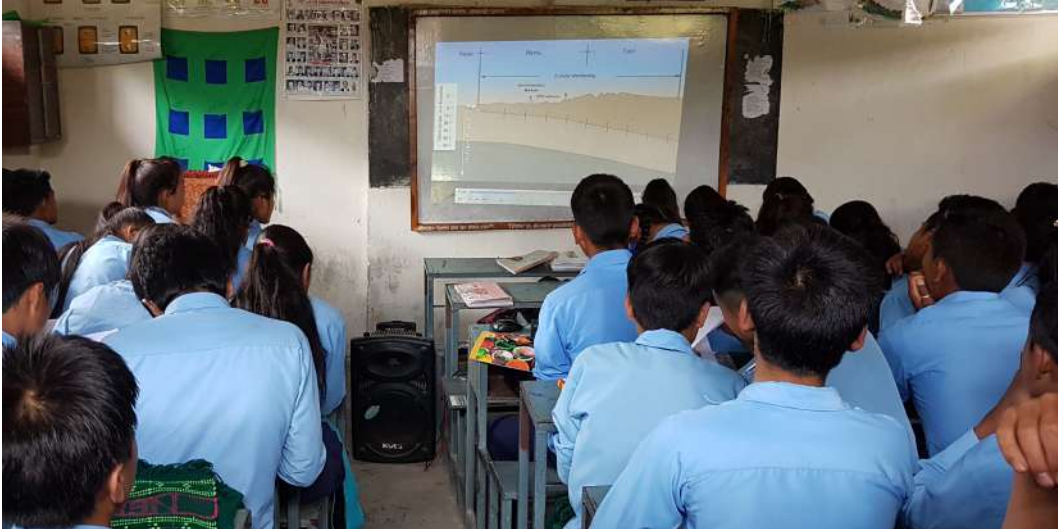
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Project aim : Education

Educational materials

➤ Animations and videos for better understanding



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Project aim : Education

UNIL UNIVERSITÄT DUISBURG ESSEN FAKULTÄT FÜR INGENIEURWISSENSCHAFTEN UND ARCHITEKTUR

Educational materials: Flyer

- ❑ Flyer prepared for earthquake education is distributed to students during 1st field visit.
- ❑ We aim to provide a flyer printed in large size for school which can be applicable for long-term.
- ❑ Schools can use the flyer for teaching in any time in future.
- ❑ The flyer is in English and Nepali language.
- ❑ Some games are also included in the flyer.

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Project aim : Education

UNIL UNIVERSITÄT DUISBURG ESSEN FAKULTÄT FÜR INGENIEURWISSENSCHAFTEN UND ARCHITEKTUR

Educational materials: Flyer

भुकम्पको जोखिम न्यूनिकरण गर्ने तरिका के गर्ने ? कसरी गर्ने ?

भुकम्प जानुपर्वका तयारी

Source: CPPS

सुरक्षित ठाउँ पत्ता लगाउनु

तपाईं आफैलाई सुरक्षित गर्नको लागि सुरक्षित ठाउँहरू खोज्नुहोस (टेबलमुनी अथवा बन्द्यामुनी वा ढोकाको प्रेम आदी)

अत्यावश्यक सामग्रीको तयारी

अत्यावश्यक सामग्रीको किट (KIT) तयार गर्नुहोस र सजिलै उपलब्ध हुने तरिकामा राख्नुहोस ।
अत्यावश्यक सामग्रीहरू: पानी / राम्रो समयसम्म नखुटिने खानेकुरा / फल एक किट / सानो छाट्टी / टर्नसिट खाट्टि गहिरा / सानो कपडाहरू/फ्याब्रिकेट / आफ्नो परिवार दिने कलाकको प्रतिचित्र / केटी पैसा आदी ।

वरीपरी हेर्नुहोस

दरवाजा वा झुपडाहरूका सभानहरू राम्रोसँग पखाल्नु (भित्तामा) अबिएको छ छैन चेक गर्नुहोस । अरको ठाउँमा भएका गहरो (सक्रिय) सभानहरू हेर्नुहोस । पानीका भाँडा, घास चुल्झे र बिजुलीका स्विचहरू कहाँ छन् याद गर्नुहोस ।

आफैले अभ्यास गर्नुहोस

आध्यात्मिक जीवन कायमिपिन बचस हुनुहोस । बढो परिवारका सदस्यहरू फाँट फाँट करीमा हुनुहोस रने आपतकालिन सभाथामा भेट्ने ठाउँ दर्ता राख्नुहोस ।

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Project aim : Education

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Educational materials: Flyer

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भुकम्प जाँदै गर्दा

कहिले र कहाँ जाने ?



पहिलो झटका भन्पछ भएको जतिबखेर छिटो पहिले छानेर कोको सुरक्षित अठमा जानु होस । भर्षाड र लिफ्ट प्रयोग नगर्नुहोस । यदी तपको बाहिर हुनुहुन्छ भने अलिक टाढा जानुहोस ।

भवन बाहिरको जोखिम



यदी तपाईं भवनबाहिर हुनुहुन्छ भने बाहिरि बानुहोस र फलफलमा टाढा जानुहोस, जसो विद्युत तारको वा अन्य यस्तोहरू खपन गर्ने सडिबन्ध टाढा जानुहोस । भित्तलो सडिबन्ध टाढा बानुहोस भुकम्पले पहिरो जान सक्छ, ढुङ्गा खपन सक्छन ।

रात्रो आश्रयस्थल पता लगाउनु



तल जानुहोस आश्रय लिनुहोस यलियोसो बभानुहोस

यदी तपाईं पिछालयमा हुनुहुन्छ भने तुरुन्तै टेबलपनी आश्रय लिनुहोस । टेबलको बाटोहरू बलियोसँग समातनुहोस, भुकम्प तदि गर्दा खलटहट गर्न सक्छन ।

कारभित्र/बसभित्र



यदी तपाईं कार/बसभित्र हुनुहुन्छ भने खुल्का दरिअघ रोकनुहोस र सवारी भित्र नै बानुहोस । पुरानाको तब आकारो युलुकी पार्किङ नगर्नुहोस ।

Source:



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Project aim : Education

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Educational materials: Flyer

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भुकम्प पछाडी

भुकम्पको झटका सकिदा बित्तिकै



जस पहिलो झटका सकिदा, यदी सम्भव छ भने पानी/वायु र बिजुली बन्द गर्नुहोस । अत्यावश्यक सामग्री लिनुहोस र भवनबाट बाहिर निस्कनुहोस ।

मेडिकल केयरको सुनिश्चित



मेडिकल केयरको सुनिश्चित गर्नुहोस । आफू जानकार रहनुहोस । तपाईं आफ्नो घोट जांच गर्नुहोस तथाईको घातपरी यदी केही जटिल र अवस्था अवरस्थामा देखनुभयो भने सहयोग गर्नुहोस । रेडियो/टेलिभिजन सुनुहोस ।

सावधानीपूर्वक बस्नुहोस



चेतावनी ! एउटा भुकम्प पछाडी अरु कम्पनहरु पनि आउन सक्छन, जसलाई पराकम्पन भनिन्छ । कम्पनको कारणले उत्पन्न हुने अन्य जोखिमहरु जस्तै पहिरो, बाढी, आपोलागीको बारेमा सचेत हुनुहोस ।

अत्यावश्यक सेवाहरु



अरुना साथी र परिवारलाई बारम्बार सम्पर्क गरे टेलीफोन लाइन व्यस्त नबनाउनुहोस । अत्यावश्यक सेवालाई प्राथमिकता दिनुहोस ।

Source:



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Project aim : Education

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Educational materials: Flyer

Game is a easy way to evaluate the level of knowledge and their thinking.



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Project aim : Education

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Remarks

- ✓ High level of interest
- ✓ Schools are highly motivated for the program
- ✓ Will play important role to make earthquake safer communities
- ✓ We hope that the examples of your schools spreads across Nepal

Thank you for your attention !

Questions and comments ??

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