

Efforts of Nepal Engineers' Association towards the Development of Engineering Education in Nepal



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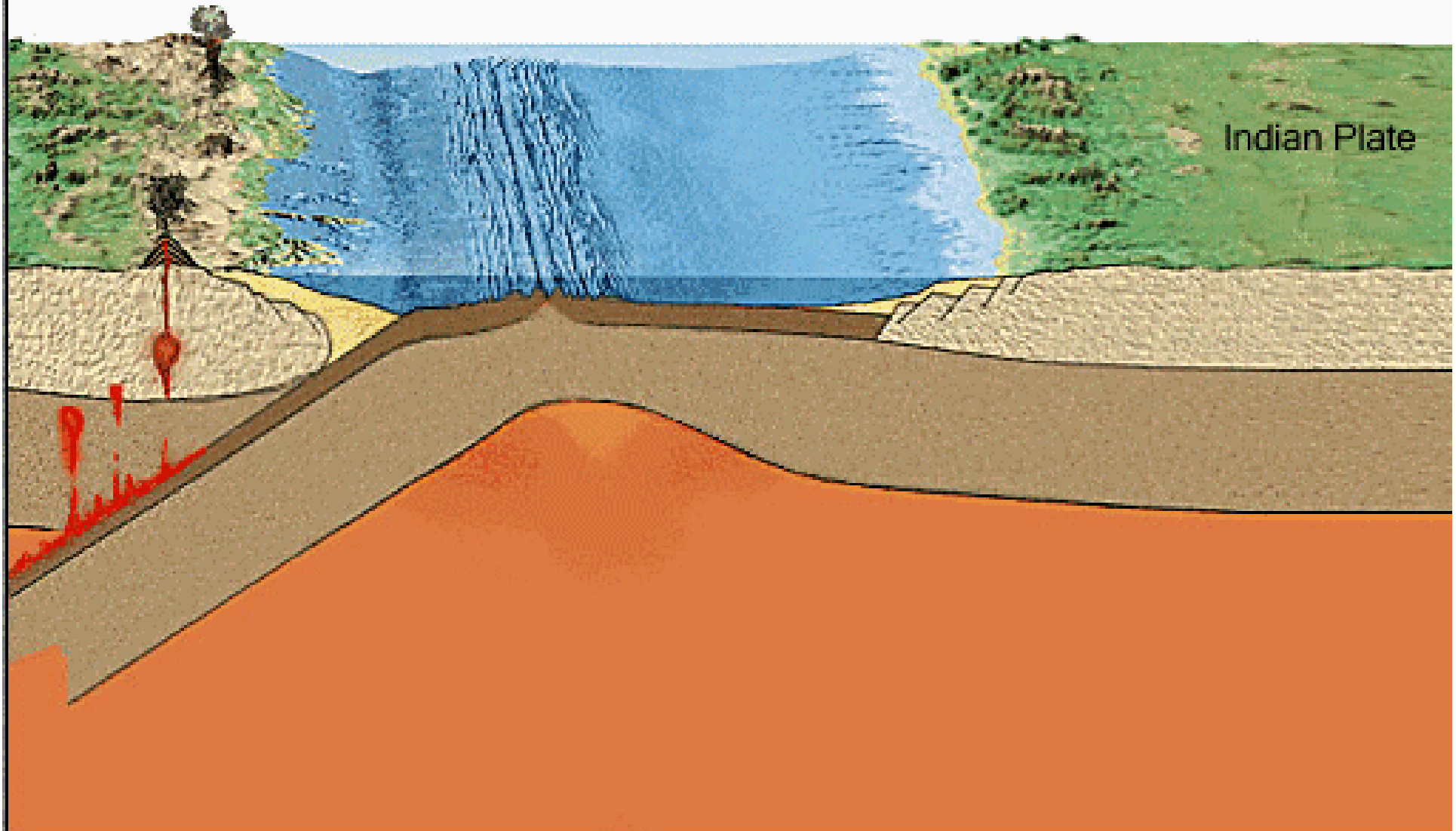
Nepal



Tectonically active zone

Eurasian Plate

Indian Plate



Mountainous terrain

- Nepal has a complex terrain condition.
- Steep slope and deep river valley systems are the key feature of Nepal mountains
- Unplanned infrastructure development, human intervention and climatic condition are playing major role in occurrence of landslide in Nepal.





Unplanned Infrastructure Development

The image shows a wide aerial view of a mountain valley. A prominent, winding road snakes across the steep, brownish slopes of the mountains. In the lower part of the valley, a small cluster of buildings is visible, representing a settlement. The surrounding landscape is rugged and mountainous, with some greenery on the lower slopes. The overall scene illustrates unplanned infrastructure development in a mountainous region.

Nepal Engineers' Association

- A Brief Introduction -

- **Established** in **1968** as a Professional Organization of Engineers of all Discipline
- **Disciplines:** Civil, Electrical and Electronics, Mechanical, Architectural, Chemical, Aeronautical, etc.
- Currently about 10,000 members; more than 6,000 are Civil Engineers
- Three **International Chapters:** Thailand, Japan, Qatar; **five regional centers** within the country
- A member of South Asian Federation of Engineers
- National Convention in every two years

Major fields in Civil Engineering

- Transport infrastructures (roadway, railway, airports, bridges, etc.)
- Power generation (hydropower: tunnels, dams, etc.)
- Irrigation (barrages, dams, canals)
- Natural disasters (landslides, floods, earthquakes)
- Drinking water & Sanitation (pipelines, drains, etc.)

Engineering Education in Nepal

- Basically copied from Indian curriculum
- Two national institutions; about 20 private engineering colleges (production: about 800 civil engineers a year)
- Disciplines taught: Civil, Mechanical, Electrical & Electronics, Computer (IT), Architecture
- First college-level engineering education: 1981
- Beginning of graduate-level research courses: 1995
- Beginning of PhD-level research course: 2004