

Science in Ethiopia. (Ermias Abebe)

- Modern school in Ethiopia was Established in the Early 1900.
- The first higher education, Addis Ababa university, was formed in 1961.
- Currently, Ethiopia has around 23 higher education administered by Government.
 - Since the inception of Addis Ababa University, it has offered courses in science and Engineering Fields.

The B.Sc program in physics throughout the country involves a minimum of 60 credits in one of the following areas:

-General Physics

-Mechanics

-Thermodynamics and statistical physics

-Quantum physics

-Electrodynamics and Electronics

-Nuclear Physics

Topics in physics (senior Project)

All in all, there are 23 physics and 2 electronics courses in the undergraduate physics program. In addition to compulsory sets of laboratory exercises, the student also takes courses in mathematics, biology, chemistry, English, geology, geography, economics, physical education and pedagogical science. The idea is centred around a rationale of fostering a well-rounded personality.

The well organized postgraduate programs are given at Addis Ababa university

- The MSc Program in Physics at Addis Ababa University involves a minimum of 24 credits of course work and a research project leading to a thesis which must be defended successfully. Courses offered are in the following areas:
 - Advanced physics laboratory,
 - Classical mechanics,
 - Mathematical methods of physics,
 - Electromagnetic theory,
 - Statistical mechanics,
 - Quantum mechanics,
 - Solid state physics,
 - Semi-conductor physics,
 - Atomic and molecular physics,
 - Nuclear physics,
 - Laser physics,

MSc research projects are offered in nuclear and solid state physics, quantum optics, laser physics and polymer physics as there is scientific equipment for these fields.

- The PhD research in physics is given in theoretical quantum optics , statistical physics, theoretical nuclear physics and laser optics.
- However, there is a lack of Advisors and supervisors, and PhD Students enrolled for the program will complete the research abroad.

Conclusion

- Even though there are many young researchers in Ethiopia, who are motivated and interested to do research in physics and engineering, they can't get the chance to do because of shortage of resources and limited collaboration with other institutions abroad.

Thank You.