

Questionnaire (version of October 2023)

### Natural-Science Disarmament Courses

*Course Description: This course examines the relationship between natural sciences, including nuclear energy, and disarmament efforts, with a focus on the Nigerian and African context.*

Time when course was/is given (years)	Offered annually
Lecturer(s)	Dennis Solomon BALAMI, Dr. John Simon, Professor Y.H. Ngadda and Professor Mohammed Hassan
Institution (department, university)	Department of Physics, University of Maiduguri, Nigeria.
Course Title	Natural Science, Nuclear Energy, and Disarmament in Nigeria.
Type (lecture, seminar ...)	Lecture and seminar.
Language(s)	English.
Time (number of hours (45 or 60 minutes?) per week, no. of weeks, no. of days if block, how often per year)	2 hours per week, 12 weeks per semester, offered annually
Audience (students of which disciplines, interdisciplinarity)	Physics, Chemistry, and Peace Studies students, interdisciplinary approach
Credits given	3-4 credits; written exam for undergraduates, oral exam for postgraduates
- for what (oral/written exam ...)	
Status in department/university/ field of study, obligatory or voluntary	Elective course, essential for interdisciplinary understanding of security issues in Nigeria.
Connection with other course(s)/ integration in field of study	Integrated into Peace and Conflict Studies curriculum, collaboration with Political Science department
Additional activities/material (Model UN, visits, invited speakers, videos, ...)	Guest lectures by experts from Nigerian Nuclear Regulatory Authority, Nigerian Atomic Energy Commission and Ministry of Foreign Affairs, field visits to nuclear facilities, documentaries on nuclear energy and disarmament efforts in Nigeria.
Presentations/papers available, to whom	Available to enrolled students via course platform
Internet site of course	Yes
Curriculum/list of units (add below or attach)	Attached
Filled in by	Dennis Solomon BALAMI
Date	6 <sup>th</sup> April 2024
Agreement to publish this	YES

### Units

1. Introduction to Natural Science, Nuclear Energy, and Disarmament.
2. Historical Context of Nuclear Energy Development in Nigeria.
3. Nuclear Non-Proliferation Treaty (NPT) and Safeguards.
4. Nuclear Energy: Benefits, Risks, and Disarmament Implications.
5. Arms Control and Nuclear Diplomacy in Africa.
6. Verification and Monitoring of Nuclear Facilities.
7. Nuclear Security and Counterproliferation Measures.

8. Case Studies: Nuclear Energy Policy in Nigeria and Africa.
9. Civil Society Engagement and Public Awareness on Nuclear Issues.
10. Future Prospects: Sustainable Development and Nuclear Disarmament.