

**Course Name** – Environmental Health: Policy and Practice

**Course Code** – TBD

**Credits** – 4

**Faculty Name** – Dr. Pradeep Guin

**Faculty Biography** – Dr. Guin holds a PhD in Public Policy from the University of Maryland, Baltimore County, and has bachelor's and master's level degrees in Statistics from the University of Delhi. His primary area of research lies at the intersection of environment, health, governance, policy, and “new-age” technologies such as GenAI. He focuses on studying the impact of climate change on human health and health systems, and on the politics and governance of environmental issues. He also explores how GenAI is changing the face of various societal domains, including but not limited to environment and climate change.

**Course Description** – Environmental health is perhaps the most critical determinant of our overall health and well-being. This course introduces environmental health within the broader context of public health and public policy. Our primary objective is to understand the dynamic interaction between humans and their environment—specifically how natural and man-made changes impact human health. The course will introduce you to the concepts of risk, exposure, mitigation practices and determinants of environmental health through the lens of air, water, waste, and climate change. You will also delve into epidemiology, environmental law, and finally how to practice environmental health. A highlight of this course is a daylong field trip that would allow you to experience and integrate classroom learnings to real world scenario! By the end of the term, you would move from identifying environmental problems to proposing evidence-based policy interventions. Upon completing the course, you would leave with a robust professional toolkit that would enhance your understanding about the environment that we live in. Specifically, you would learn to: (a) identify datasets that link environmental issues to human health outcomes, (b) critique peer-reviewed research to separate hype from evidence, and (c) draft policy proposals and letters to elected representatives, translating science into action. The teaching style would be a hybrid of class lectures for foundational theory, and group discussions for critical analysis. We will utilize local and global case studies, ensuring that you can critique scientific literature and navigate the spaces where actual policy decisions are made.

**Prerequisites** – The course is relevant to students from across the schools at JGU who are either in a master's programme or in 2<sup>nd</sup> year and above of their undergraduate programme. You must, however, have completed an introductory (university) level statistics course.

**Scheme of Evaluation and Grading** – You will be assessed through internal and external components; internals comprise 60% and external comprise 40% of your overall grade. Internal evaluation will comprise of individual-level participation in class proceedings, group-based presentation, research paper and journal critique, whereas external component will comprise of end-term exam. In addition, master-level student will be required to complete a conference-style poster, and do additional readings.