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| **The Islamia University Bahawalpur, RYK Campus** |
| **Program : BBA (IV)** |
| Spring-2020 |
| **Instructor: NIDA MAHMOOD** |
| **COURSE OUTLINE** |

1. **Brief Introduction:**

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| **Course Title:** | **Environmental Science** |
| **Credit Hours:** | Three (3) |
| **Course Code:** |  |
| **Instructor:** | Nida Mahmood |
| **Semester:** | Spring 2020 |
| **Class Timings:** | As per time table. |
| **Instructor’s Contact:** | 0335-5298310 |
| **Instructor’s Email:** | [Nidajalal@outlook.com](mailto:Nidajalal@outlook.com) |
| **Abbreviations:** |  |
| **Visiting Hours:** | Preferably call or email the instructor and arrange the meeting. |

1. **Brief Description of the Course:**

The course has been designed to introduce to the students the methods and techniques used to evaluate arguments. It assumes no prior knowledge of either philosophy or mathematics as it is an introductory level course that covers the main areas of logic, which includes both Classical and Modern Logic along with Induction, Scientific Reasoning and Modal Logic. The course begins by introducing the basic concepts used in logic before exploring the domain of Aristotelian logic. We then move to Modern Deductive. Here Propositional Calculus and Predicate Calculus are introduced along with different methods for determining the validity of arguments (and generating counter examples). Induction and Scientific Reasoning will be introduced after Predicate Logic. Modal concepts are treated towards the end of the course.

1. **Objective(s) of this Course:**

* To familiarize students with the concepts, methods and techniques employed in logic.
* To help students sharpen their reasoning talents by equipping them with the skills to asses arguments
* To increase their capacity to formulate sound and cogent arguments.
* To enable students to understand and critically analyze texts and arguments.
* Enhancing problem-solving skills.

1. **Course Contents Weekly Distribution:**

The course plan is **tentative** and may subject to change.

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| **WEEK** | **Area Of Study** |
| 1. | Introduction to Environmental Science |
| 2. | Scope and Its contribution to society |
| 3. | Environmental Pollution, its types, effects and solution |
| 4. | Presentation |
| 5. | Environmental challenges & solutions sustainable development |
| 6. | Ecosystem and depletion in Natural Resources |
| 7. | Global warming, major reasons and rectifications |
| 8. | Presentation |
|  | **MID TERM** |
| 9. | Waste Management |
| 10. | Biodiversity and Conservation |
| 11. | Natural Resources Depletion and Conservation |
| 12. | The feasibility of municipal solid waste for energy generation and its  existing management practices in Pakistan |
| 13. | Energy Resources and Their Effects on Environment |
| 14. | Presentation |
| 15. | Presentation |
| 16. | Presentation |
|  | **FINAL TERM** |

**5.** **Marks Distribution & Grading Policy:**

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| --- | --- |
| **Semester Performance** | **Weight** |
| Mid paper | **30** |
| Final paper | **50** |
| Quiz | **05** |
| Assignments | **05** |
| Project & Presentations | **05** |
| Attendance | **05** |

**Final Calculation = [MP + FP + Q + As + CP + At]**

**6.** **Class Instructions:**

* Class attendance is required and monitored. Students are responsible for all information communicated during class. This information will not be necessarily duplicated on material sent through e-mail.
* According to policy, 75% minimum attendance is required to appear in the Mid Term & final examination. ***Student who has attendance less than 75% will not be eligible for exam.***
* Students are expected to be honest and not cheat on their Assignments/examinations/project. Collaboration and discussion with fellow students are highly encouraged, but copying each other's work is forbidden.
* Academic dishonesty will not be tolerated and the student, in question, will be dealt in accordance with the University policies.
* Cell phones may not be used as calculators. Cell phones must be turned off at all times
* During the lectures and lab sessions. The communication functions including text messaging on all devices must be turned off during the class and exams.
* Students are not allowed to sell or distribute the course material and artifacts provided for this class.
* Students with disabilities or severe bad health condition are encouraged to consult the instructor as soon as possible. Please inform the Instructor if there is a need for alternate format for evaluation or exams.
* Students who anticipate the necessity of being absent from class due to the observation of a major religious observance must provide notice of the date(s) in writing by the second week.
* Read your emails daily to find out any new classroom instructions.
* Day to day class participation will be recorded. Questions and active participation are highly valued. Attitude of an individual in the class, response towards instructor and other students will play an important role.
* The instructor reserves the right to interpret the class policies if confusions may occur.

**7. Assignment and Quiz Instructions:**

* Five or six assignments are expected in this course.
* Late submission will not be marked.
* Late submission of assignments is granted only for pre-stated genuine problem or engagement, but with a penalty of deduction.
* Quizzes will be un-announced, short and logical.
* Four to five quizzes can be expected throughout this course.

**8. Exam Guidelines:**

* Exams are conducted to judge ones understanding of the subject. Exams will be closed book.
* For you to perform well, you must pay full attention to all lecture notes and slides and stay attentive during the lecture.
* Students can expect anything in the paper.
* Make-up exam are granted only when a police report or a doctor's note showing some Emergency is presented.

**9.** **Recommended Books:**

* *Environmental Science: Earth as a Living Planet*, Botkin, D.B & Keller, E.A. 6th Ed. John Wiley & Sons, 2007.
* 2. *Environmental Science: systems and solutions,* McKinney, M.L., Schoch, R.M. & Yonavjak, L. 4th Ed. Jones & Bartlett Publishers, 2007
* 3. *Environmental Science: Toward a Sustainable Future,* Wright, R.T. & Nebel, B.J. 10th Ed. Pearson Educational, 2007.
* 4. *Environmental Science: working with the Earth.* Miller, G., Thomson Learning, 2002.

**10.** **Communication:**

All the material will be sent through e-mail. It is mandatory that each student keeps track of his / her result. All students must maintain the entire class working, quiz, Assignments and other course related material in a portfolio.