UNIVERSITY LAW COLLEGE
FACULTY OF LAW
UNIVERSITY OF THE PUNJAB, LAHORE
COURSE OUTLINE
SEMESTER-II

Programme	**Bachelor of Laws (LLB)**	**Course Code**	**NSS-104**	**Credit Hours**	**3**
Course Title	**Everyday Science**				
Domain	**General Education**				

Course Introduction

The Everyday Science course provides a broad overview of the fundamental concepts of science, highlighting its nature, historical development, and its role in shaping human civilization. It introduces students to the core principles of the physical and biological sciences, including the structure of the universe, natural processes, energy resources, modern scientific innovations, and the foundations of life. The course also explores the historical contributions of Muslim scholars to scientific advancement, the relationship between science and society, and the basic organization and functioning of living organisms.

Learning Outcomes

By the end of this course, students will be able to:

1. Explain the nature of science, its historical evolution and its impact on society and human development.
2. Describe the fundamental concepts of the physical sciences, including the structure of the universe, natural phenomena, energy sources and conservation, and the principles underlying major scientific and technological innovations.
3. Explain the basic principles of biological sciences and human physiology.
4. Evaluate the role of science and technology in everyday life, and make informed decisions related to health, the environment, and society.

	Course Content	**Assignments/Readings**
Week 1	**UNITI: Introduction** 1.1 Nature of Science; 1.2 Brief History of Science with special reference to contribution of Muslims in the evolution and development of science:	Kashmiri, M.A. (2023) Everyday Science. A.H. Publishers
Week 2	**UNITI: Introduction** 2.1 Impact of science on society	Kashmiri, M.A. (2023) Everyday Science. A.H. Publishers
Week 3	**UNITII: The Physical Sciences** 3.1 Constituents and Structure: Universe, Galaxy. Solar system	Kilburn, R.E. and Howell, P.S. (1981). Exploring Physical Sciences, Allyn and Bacon
Week 4	**UNITII: The Physical Sciences** 4.1 Sun, Earth. Minerals;	

Week 5	**UNIT II: The Physical Sciences** 5.1 Processes of Nature -Solar and Lunar Eclipses Day and Night and their variation:	**Quiz/ Assignment:** Contribution of Muslim in Evolution and Development of Science. Constituents and Structure: Universe, Galaxy. Solar system
Week 6	**UNIT III: Energy :- Sources and Resources of Energy Conservation** 6.1 Ceramics, Plastics. Semiconductors.	Kilburn, R.E. and Howell, P.S. (1980). Exploring Life Sciences, Allyn and Bacon
Week 7	**UNIT III: Energy :- Sources and Resources of Energy Conservation** 7.1 Radio. Television, Telephones. Camera. Laser. Microscope.	**Assignment:**Sources and Resources of Energy Conservation. Kashmiri, M.A. (2023). Everyday Science. A.H. Publishers
Week 8	**UNIT III: Energy :- Sources and Resources of Energy Conservation** 8.1 Computers, Satellites	Kilburn, R.E. and Howell, P.S. (1980). Exploring Life Sciences, Allyn and Bacon
Week 9	**Mid Term Examination**	
Week 10	**UNIT III: Energy :- Sources and Resources of Energy Conservation** 10.1 Antibiotics, Vaccines, Pesticides.	Kashmiri, M.A. (2023). Everyday Science. A.H. Publishers
Week 11	**UNIT III: Energy :- Sources and Resources of Energy Conservation** 11.1 Fertilizers	Kashmiri, M.A. (2023). Everyday Science. A.H. Publishers
Week 12	**UNIT IV: Biological Sciences** 12.1 The basis of life - the cell, chromosomes, genes, nucleic acids.	**Presentations:** The Basis of Life and Business Blocking. Kashmiri, M.A. (2023). Everyday Science. A.H. Publishers
Week 13	**UNIT IV: Biological Sciences** 13.1 The building blocks - Proteins. Hormones and other nutrients Concept of balanced diet. Metabolism.	Kilburn, R.E. and Howell, P.S. (1980). Exploring Life Sciences, Allyn and Bacon
Week 14	**UNIT IV: Biological Sciences** 14.1 The building blocks - Proteins. Hormones and other nutrients Concept of balanced diet. Metabolism.	Kilburn, R.E. and Howell, P.S. (1980). Exploring Life Sciences, Allyn and Bacon
Week 15	**UNIT IV: Biological Sciences** 15.1 Survey of Plant and Animal Kingdom - a brief survey of plant and animal kingdom to pinpoint similarities and diversities in nature.	Kashmiri, M.A. (2023). Everyday Science. A.H. Publishers. Kilburn, R.E. and Howell, P.S. (1980). Exploring Life Sciences, Allyn and Bacon
Week 16	**UNIT IV: Biological Sciences** 16.1 The Human body - a brief account of human Physiology, Human behavior.	**Quiz:** Plant and Animal Kingdom.

		Kilburn, R.E. and Howell, P.S. (1980). Exploring Life Sciences, Allyn and Bacon
Week 17	**UNIT IV: Biological Sciences** 17.1 The Human body - a brief account of human Physiology, Human behavior.	Kashmiri, M.A. (2023). Everyday Science. A.H. Publishers
Week 18	**Final Term Examination**	

Textbooks and Reading Material

1. Textbooks:

The books and reading material listed below will serve as both the primary textbooks and reference material.

2. Suggested Readings:

1. Kashmiri, M.A. (2023). Everyday Science. A.H. Publishers
2. Kilburn, R.E. and Howell, P.S. (1980). Exploring Life Sciences, Allyn and Bacon.
3. Kilburn, R.E. and Howell, P.S. (1981). Exploring Physical Sciences, Allyn and Bacon.

Teaching Learning Strategies

1. Interactive Lectures and Guided Discursions
2. Collaborative Learning
3. Research- Based Learning
4. Problem- Based Assignments
5. Short Tests and Projects

Assignments: Types and Number with Calendar

1. Quizzes
2. Presentations and Viva voce
3. Description/ Problem- Based Assignments
4. Case Study Analysis

Assessment

Sr. No.	Elements	Weightage	Details
1.	Midterm Assessment	20%	Written Assessment at the mid-point of the semester.
2.	Formative Assessment	10%	Continuous assessment includes: Classroom participation, assignments, presentations, viva voce, attitude and behavior, hands-on-activities, short tests, projects, practical, reflections, readings, quizzes etc.
3.	Final Assessment	70%	Written Examination at the end of the semester. It is mostly in the form of a test, but owing to the nature of the course the teacher may assess their students based on term paper, research proposal development, field work and report writing etc.