

Institute of Microbiology and Molecular Genetics
Faculty of Life Sciences
University of the Punjab, Lahore
Course Outline



Programme	BS	Course Code	MMG 306	Credit Hours	2
Course Title	SUSTAINABLE DEVELOPMENT GOALS				
COURSE INTRODUCTION					
The Course aims to provide the opportunity to explore the humanitarian aspects of the way business is currently done and provides information about laying the groundwork to provide future generations with the best quality of life possible.					
LEARNING OUTCOMES					
On the completion of the course, the students will be able to:					
<ol style="list-style-type: none"> 1. Explain the role of microbiology and Molecular genetics in achieving the United Nations Sustainable Development Goals (SDGs). 2. Analyze the impact of microorganisms on global challenges such as health, food security, and environmental sustainability. 3. Apply microbiological and Molecular Genetics knowledge to contribute to sustainable development initiatives and policies. 4. 					
COURSE CONTENT					
Introduction to SDGs: No poverty (SDG 1), Zero hunger (SDG 2), Good health and well-being (SDG 3), Quality education (SDG 4), Gender equality (SDG 5), Clean water and sanitation (SDG 6), Affordable and clean energy (SDG 7), Decent work and economic growth (SDG 8), Industry, innovation and infrastructure, (SDG 9), Reduced inequalities (SDG 10), Sustainable cities and communities (SDG 11), Responsible consumption and production (SDG 12), Climate action (SDG 13), Life below water (SDG 14), Life on land (SDG 15), Peace, justice, and strong institutions (SDG 16), and Partnerships for the goals (SDG 17).					
TEXTBOOKS AND READING MATERIAL					
<ol style="list-style-type: none"> 1. <i>"The 17 Goals". Sustainable Development Goals. UN. Retrieved 10 August 2022.</i> 2. Sachs, J.D., Kroll, C., Lafortune, G., Fuller, G., Woelm, F. (2022). <i>Sustainable Development Report 2022</i>, Cambridge University Press. 3. Kumar, M. (2018). <i>Green Technologies for Sustainable Agriculture</i>. Random Publishers. 4. Figueres, C., & Rivett-Carnac, T. (2020). <i>The Future We Choose: Surviving the Climate Crisis</i>, Amazon Publishers. 					
ASSESSMENT					
Sr. No.	Elements	Weightage	Details		
1.	Midterm Assessment	35%	Written Assessment at the mid-point of the semester.		
2.	Formative Assessment	25%	Continuous assessment includes Classroom participation, assignments, presentations, viva voce, attitude and behavior, hands-on activities, short tests, projects, practicals, reflections, readings, quizzes etc.		

3.	Final Assessment	40%	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, fieldwork , report writing etc.
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