



## Evidence UI GreenMetric Questionnaire

University : Muhammad Nawaz Sharif, University of Agriculture Multan.  
Country : Pakistan..  
Web Address : [www.mnsuam.edu.pk](http://www.mnsuam.edu.pk)

### [6] Education and Research (ED)

#### [6.1] Number of Courses/Subjects Related to Sustainability Offered

Original

Sr. No	Courses/Modules related to Sustainability	Department	Sr. No	Courses/Modules related to Sustainability	Department
1.	Field Crop Production	Department of Agronomy	20.	Introduction to Environmental Science	Department of Soil & Environmental Sciences
2.	Principles of Agronomy		21.	Soil, Water and Air Pollution	
3.	Agro-Ecology		22.	Carbon Sequestration and Environment	
4.	Sustainable Agriculture and Organic Farming		23.	Soil Fertility Evaluation	
5.	Fodders and Forages		24.	Nutrient Management in Degraded Soils	
6.	Crop Management under stressful Environments		25.	Plant Growth under Stress Environment	
7.	Arid Zone Agriculture		26.	Municipal Wastes and its Transformations	
8.	Agro-technology of Major Field Crops		27.	Soil Fertility Evaluation	
9.	Management of Field Crop Nutrition		28.	Salt-Affected Soils and Water Quality	
10.	Biological Crop Potential		29.	Soil Fertility and Fertilizer Use	
11.	Environmental Physiology and Crop Improvement		30.	GIS in Soil Survey and Land Use Planning	
12.	Farming System and Farm Record		31.	Soil Microbiology and Environment	
13.	Application of Allelopathy in Agriculture		32.	Environment Pollution and Management	
14.	Field Crop Physiology		33.	Soil, Water and Environment Conservation	
15.	Applied Crop Ecology		34.	Saline Agriculture	
16.	Farming and Cropping Systems		35.	Soil Fertility and Plant Nutrition	
17.	Sustainable Agriculture		36.	Soil Microbiology and Biotechnology	
18.	Climate Change and Agriculture		37.	Advances in Soil Fertility	
19.	Postharvest Technology of Crops		38.	Soil and Environmental Microbiology	
39.	Essentials of Food Science and Technology	Food Sciences & Technology	54.	Apiculture and Sericulture	Entomology
40.	Food Quality Management		55.	Insect Ecology and Behavior	
41.	Poultry and Egg Processing		56.	Insect Pests of Household, Human & Animals	
42.	Principles of Human Nutrition		57.	Sustainable Pest Management of Highly Valued Crops	
43.	Fruit and Vegetable Processing		58.	Insect Biodiversity Management	
44.	Meat Technology		59.	Insect Biodiversity & Evolution	
45.	Technology of Oils and Fats		60.	Stored Products Pests & their Management	
46.	Food Toxicology & Safety		61.	Beneficial Insects	
47.	Community Nutrition & Dietetics		62.	Insecticides and Environmental Pollution	
48.	Food Safety and Quality Management		63.	Range and Forest Entomology	
49.	Advances in Food Microbiology		64.	Post-Harvest Protection of Cereals	
50.	Technology of Edible fat and oil		65.	Stored Products Pests & their Management	
51.	Advances in Processed Meat Technology		66.	Advances in Pest Management Research	
52.	Food Industrial Waste Management		67.	Insecticide Resistance and Management	
53.	Post Harvest Management		68.	Insect Rearing Techniques	
			69.	Insecticides and Public Health	



Sr. No	Courses/Modules related to Sustainability	Department	
70.	Peri-Urban Horticulture	Department of Horticulture	
71.	Environmental Horticulture		
72.	Medicinal and Aromatic Plants		
73.	Nutrient Management of Horticultural Crops		
74.	Organic Horticulture Production		
75.	Good Agricultural Practices in Horticulture		
76.	Business Management in Horticulture		
77.	Propagation and Nursery Management		
78.	Commercial Flower Production		
79.	Vegetable and Flower Seed production		
80.	Food Safety in Horticultural Crops		
81.	Propagation and Nursery Management.		
82.	Rootstocks for Horticultural Crops		
83.	Horticultural Production under Abiotic Stresses		
84.	Mushroom Biology and Technology		
Sr. No	Courses/Modules related to Sustainability	Department	
85.	Introduction to Agro-Based Industry	AGRO-INDUSTRIAL ENGINEERING TECHNOLOGY	
86.	Post-Harvest Processes		
87.	Grain Science for Industry		
88.	Feed Milling Technology		
89.	Environmental Management System for Industry		
90.	Entrepreneurship		
91.	Grain Milling Technology		
92.	Technology of Oils and Fats		
Sr. No	Courses/Modules related to Sustainability	Department	
93.	Plant diversity	FISHERIES AND AQUACULTURE	
94.	Fish Nutrition		
95.	Fish and Fisheries Biology		
96.	Fishery Technology		
97.	Water Pollution		
98.	Integrated Fish Farming		
99.	Inland Fisheries Management		
100.	Fish Post-harvest Technology		
Sr. No	Courses/Modules related to Sustainability		Department
119.	Breeding for Plant Quality Traits		PLANT BREEDING AND GENETICS
120.	Hybrid Seed Production Technology		
121.	Breeding Climate Smart Crops		
122.	Genetics and Breeding of High-value (Minor and Medicinal) Crops		
123.	Genetics and Breeding of Cereal Crops		
124.	Bio-Safety Measures in GM Crops		
125.	Hybrid Seed Production Technology		
126.	Biosafety Measures in Crop Improvement		
127.	Crop Breeding for Biotic and Abiotic Stresses		
128.	Crop Breeding for Quality and Bio-fortification		
129.	Participatory and Integrated Climate Smart Plant Breeding		
130.	Entrepreneurship in Plant Breeding		
Sr. No	Courses/Modules related to Sustainability	Department	
131.	Seed Health and Vigour	SEED SCIENCE AND TECHNOLOGY	
132.	Biological Potential of Various Crops		
133.	Seed Enhancement		
134.	Seed Production of Transgenic Crops		
135.	Environmental Factors and Seed Crop Production		
136.	Seed Health Management and Quarantine Measures		
137.	Quality Assurance Systems in Seed Industry (For PhD students)		
138.	Post-harvest Physiology		
Sr. No	Courses/Modules related to Sustainability	Department	
157.	Resource and Environmental issues of Agrarian Economy	AGRICULTURAL AND RESOURCE ECONOMICS	
158.	Agricultural issues and Policies of Pakistan		
159.	Agribusiness Supply Chain Management		
160.	Economics of Climate Change		
161.	Energy Economics		
162.	Environmental Economics		
Sr. No	Courses/Modules related to Sustainability	Department	
163.	Agro Value Chain Management	MS AGRIBUSINESS	
164.	Environmental Management		
165.	Entrepreneurship in Agriculture		
166.	Advanced Food Marketing		
167.	Strategic Agribusiness Management		
168.	Agro Value Chain Management		
169.	Livestock and Dairy Business Management		
170.	Poultry Business Management		
171.	Environmental Management		
Sr. No	Courses/Modules related to Sustainability		Department
101.	Soil Science and Crop Production	BBA AGRIBUSINESS	
102.	Orchard Planning and Management		
103.	Farm Mechanization		
104.	Energy Resources and Utilization		
105.	Agribusiness Supply Chain Management		
106.	Agribusiness Entrepreneurship		
107.	Poultry Business Management		
108.	Water Management		
109.	Human Resource Management in Agriculture		
110.	Harvest Technology		
Sr. No	Courses/Modules related to Sustainability	Department	
111.	Rural Poultry Production	POULTRY SCIENCE	
112.	Poultry Farm Management		
113.	Poultry Feeding Practices		
114.	Broiler Production and Management		
115.	Poultry Farm Management & Bio security		
116.	Layer Production and Management		
117.	Poultry Farm Practices-I		
118.	Poultry Products Technology		
Sr. No	Courses/Modules related to Sustainability	Department	
139.	Abiotic Diseases of Plants	Plant Pathology	
140.	Biological Control of Plant Pathogens		
141.	Plant Disease Management		
142.	Seed and Post-Harvest Pathology		
143.	Plant Resistance to Diseases		
144.	Integrated Plant Disease Management		
Sr. No	Courses/Modules related to Sustainability	Department	
145.	Modern Concepts in Biotechnology	BIOTECHNOLOGY	
146.	Fundamentals of Seed Molecular Biology		
147.	Biotechnology: Principles and Applications		
148.	Bioremediation and Biodegradation		
Sr. No	Courses/Modules related to Sustainability	Department	
149.	Rural Sociology and Development	Elective Courses	
150.	Introduction to Veterinary Preventive Medicine		
151.	Agro-Forestry, Range and Wildlife Management		
152.	Metabolism of Primary Nutrients		
153.	Biodiversity		
154.	Mineral and Vitamin Metabolism		
155.	General Microbiology and Immunology		
156.	Principles of Poultry Nutrition		
Sr. No	Courses/Modules related to Sustainability	Department	
172.	Biodiversity	Department of Veterinary Sciences	
173.	Poultry Meat Inspection		
174.	Veterinary Epidemiology and public health		
175.	Poultry Feed Industry		
176.	Plant diversity		
177.	Ecology		
178.	Water pollution		
179.	Aquatic macrophytes and Management		
180.	Aquatic toxicology		
181.	Fish Post harvest Technology		
182.	Fodders and Forages		
183.	Fish and Fisheries of Pakistan		
184.	Insect Pests of Household, Human and Animals		
185.	Agro-Forestry, Range and Wildlife Management		



186	Remote Sensing and GIS Applications in Animal Sciences		
187	Utilization and Conservation of Animal Genetic Resources		
188	Marine and Fresh Water Microbiology		
189	Basic Biotechnology		
190	Environmental Microbiology		
191	Industrial Microbiology		
192	Biorisk Management (Biosafety and Biosecurity)		
193	Food and Dairy Microbiology		
194	Animal Biodiversity		
195	Plant Diversity		
196	Aquatic Biology		
197	Biodiversity		
198	Environmental Biology		
199	Aquatic toxicology		
200	Zoogeography & Paleontology		
201	Epidemiology and Public Health		
<b>Courses/Subjects Related to Sustainability (MNSUAM)</b>			

**Description:**

Number of courses/modules related to environment and sustainability offered in 2020 = **190+ courses**