

1. POST GRADUATE DIPLOMA IN SUSTAINABILITY SCIENCE (PGDSS)

Minimum Duration: 1 Year

Maximum Duration: 4 Years

Course Fee:

- 1. Indian National:** Rs. 6000/-
- 2. SAARC Countries:** \$ 450
- 3. Non SAARC:** \$ 1400

Minimum Age: No bar

Maximum Age: No bar

Eligibility of admission

- All graduates from social and natural sciences streams
- Policy makers, administrators, scientists and educators as well as general public interested in paradigm shift from the present unsustainable to sustainable development.

PROGRAMME OVERVIEW

Sustainability Science is defined as the study of dynamic interactions between nature and society. For planet Earth, humanity, and all other living beings at crossroads, the most urgent need is to reconcile environment and development in a mutually – reinforcing manner, in view of the ever-increasing “ecological footprint” and constantly reducing “biocapacity”. The PG Diploma in Sustainability Science, an inter-and multidisciplinary programme, have contents drawn from environmental sciences, ecology, economics, anthropology, humanity and social sciences. The ethics, economics, equity, energy, employment and education are the basic components, and the issues concerning population, anthropogenic pressure on planet Earth, the threats such as climate change, free but not fair trade etc. have also been addressed.. Emphasis on essential policy requirements has been made with reference to the ecological, social and economic dimensions of sustainable development.

PROGRAMME OBJECTIVES

The major objectives of the programme are to:

- Enhance awareness and impart knowledge on urgent measures to be taken to limit population explosion, unsustainable lifestyle, and generation of non-and slowly recyclable e-waste, synthetic chemicals etc.
- Transform green revolution into evergreen revolution so that agriculture is no longer a destroyer of forests and biodiversity.
- Put “ecology” in the centre of economic development – Principles of ecological economics as well as newer areas such as social economics would be taught along with essential integration with ethics, and equities.

PROGRAMME STRUCTURE

The programme consists of the following 7 courses and a project work/Dissertation:

- MSD-011: Sustainability Science (4 credits)
- MSD-012: Ecosystem and Natural Resources (4 credits)
- MSD-013: Socio-Cultural System (4 credits)
- MSD-014: Ecological Economics (4 credits)
- MSD-015: Institutions, Governance and Policies (4 credits)
- MSD-016: Strategies and Models for Sustainability (4 credits)
- MSD-017: Challenges to Sustainable Development (4 credits)

COURSES

The programme consists of the following 7 theory courses and a project work/Dissertation of four credits (1 credit = 30 hours of self study) each.

Sl. No.	Course Code	Title of the Course	Nature of the Course	Credits
1.	MSD-011	Sustainability Science	Theory	4
2.	MSD-012	Ecosystem and Natural Resources	Theory	4
3.	MSD-013	Socio-Cultural System	Theory	4
4.	MSD-014	Ecological Economics	Theory	4
5.	MSD-015	Institutions, Governance and Policies	Theory	4
6.	MSD-016	Strategies and Models for Sustainability	Theory	4
7.	MSD-017	Challenges to Sustainable Development	Theory	4
8.	MSDP-018	Project/Dissertation	Project work	4

Code: MSD-011 COURSE 1: SUSTAINABILITY SCIENCE

Block 1	Sustainability Science
Block 2	Introduction to Sustainable Development
Block 3	Approaches to Sustainable Development
Block 4	Ecology, Economics and Ethics

Code: MSD-012 COURSE 2: ECOSYSTEM AND NATURAL RESOURCES

Block 1	Biological Resource: Status and Issues
Block 2	Land and water Resources
Block 3	Energy & Mineral Resources
Block 4	Agrobiodiversity: Status and issues

Code: MSD-013 COURSE 3: SOCIO-CULTURAL SYSTEM

Block 1	Culture, society and environment
Block 2	Social Change
Block 3	Indigenous knowledge system
Block 4	Developmental Pathways: Equity and Social Justice

Code: MSD-014 COURSE 4 ECOLOGICAL ECONOMICS

Block 1	Ecology, Environment and Sustainability
Block-2	Resource and Economy
Block-3	Environmental Issues in India
Block-4	Valuation & pricing of Natural Resources

Code: MSD-015 COURSE 5: INSTITUTIONS, GOVERNANCE AND POLICIES

Block 1	Institutional mechanism
Block 2	Governance
Block 3	Policy tools
Block 4	India's Initiatives and Progress towards Sustainable Development

Code: MSD-016 COURSE 6: STRATEGIES AND MODELS FOR SUSTAINABILITY

Block 1	Strategies for Sustainable Development
Block 2	Knowledge System and Technology for Sustainable Rural Development
Block 3	Evergreen Revolution
Block 4	Models for Sustainability

Code: MSD-017 COURSE 7: CHALLENGES TO SUSTAINABLE DEVELOPMENT

Block 1	Climate Change
Block 2	Global Environmental Issues
Block 3	Health, Nutrition and Environment
Block 4	Threats

Code: MSDP-018 COURSE 8: PROJECT/DISSERTATION

Objective: Templates shall be made available for synopsis submission, project uploading and evaluation at SAVE platform.

RELATED INFORMATION

Continuous Evaluation of Theory Component

Assignment

There will be three assignments for each theory course. Each assignment shall be of 10 marks.

Term End Examination

Online examinations will be conducted in specified Regional centers.

Project work/dissertation

Templates shall be made available for synopsis submission, project uploading and evaluation.

Evaluation

1. Weightage to Continuous Evaluation and Term-End Evaluation

The weightage to the term-end examination will be 70% and the weightage to the continuous assessment will be 30%.

The theory term end examination will be of 100 marks. The minimum pass marks in term end examination will be 50.

2. Pass percentage for Assignment, term end Examination

The students will have to secure minimum 50% marks in all the components of the course- theory, continuous assessment (assignment), practical and as well as on aggregate basis for the course i.e. (i) theory (term end assignment); and (ii) on aggregate basis.

3. Modalities for Term End Examination

Theory: Term-End Examination 70% and continuous assessment: 30%

4. Distribution of marks

Every course is considered as an independent unit. The maximum marks for each course shall be 100. The course wise distribution of marks is given below in the table.

Total and Course-wise Distribution of Marks

Course Code	Term-end	Assignment	Total Marks Obtained out of 100
MSD-011	70 (35)	30 (15)	100 (50)
MSD-012	70 (35)	30 (15)	100 (50)
MSD-013	70 (35)	30 (15)	100 (50)
MSD-014	70 (35)	30 (15)	100 (50)
MSD-015	70 (35)	30 (15)	100 (50)
MSD-016	70 (35)	30 (15)	100 (50)
MSD-017	70 (35)	30 (15)	100 (50)
MSD-018	Project Report	Viva Voce	100 (50)
	70	30	

The marks in bracket indicate minimum pass marks.

a. Pass percentage for the programme

The students will have to secure 50% marks in all the courses on individual basis and on aggregate basis in all the eight courses for award of the programme degree.

b. Result and certification

The final certification of the Diploma shall be made on a five point scale and Grade point average as approved by the University vide Item No. 19.6 of the Academic Councils Standing Committee is as follows:

Letter Grade	Point Grade	Range	% of Marks	Division
A	5	4.50 and above	80% and above	1st Division with Dist.
B	4	3.50 to 4.49	60% to 79.9%	1st Division
C	3	2.50 to 3.49	50% to 59.9%	2nd Division
D	2	1.50 to 2.49	40% to 49.9%	Failed
E	1	0 to 1.49	Below 40%	Failed

EXAM FORM

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2. APPRECIATION PROGRAMME ON SUSTAINABILITY SCIENCE (APSS)

Minimum Duration: 1 Month

Maximum Duration: 6 Months

Course Fee:

1. **Indian National:** Rs. 500/-

2. **SAARC & Non SAARC Countries:** \$ 40

Minimum Age: No bar

Maximum Age: No bar

Eligibility of admission

- The programme is open to the candidates who are Graduate in any discipline or its equivalent from any recognized University. The preference will be given to the post graduate scholars, scientists and policy makers working in the areas of agriculture, rural development, environmental science and sustainable development.

PROGRAMME OVERVIEW

Our planet is now in an era of climate change and environmental decay. The basic life support systems essential for sustainable advances in farm productivity are now facing threats because of the enlargement of the **ecological foot print** of human beings. Therefore, it is essential for all concerned with both sustainable human security and the health of our environment to understand the relationships between human kind and nature. Only then living in harmony with nature will become possible. It is only in this manner that we can ensure that all development programmes help not only the present generation but the generations yet to be born. This is the purpose of sustainability science, which aims to provide the theoretical foundations and practical strategies for achieving the goal of concurrent progress in economic and ecological security. IGNOU has therefore introduced this Appreciation Programme as part of its efforts to help our country to achieve the goal set by Mahatma Gandhi that we should live in a manner keeping in view that **“nature provides for everybody’s need but not for everyone’s greed”**.

PROGRAMME OBJECTIVES

- The core objective of this programme is to build the capacity of policy makers, administrators, scientists and educators as well as the general public in the science and art of environmentally, economically and socially sustainable development.
- The course will help the participants to develop an Agenda 21 Plan of Action for their respective village/town/city
- To help those involved in agriculture to launch an era of ever-green revolution which can help to enhance productivity in perpetuity without ecological harm.

PROGRAMME STRUCTURE

The programme is of one month duration and consists of four blocks. The fourth block refers to Project work based on practical exercises and case studies/ field visits. In order to be eligible for the award of the certificate, a student has to complete the following four blocks.

Block 1: Introduction

Block 2: Evergreen Revolution

Block 3: Threats: Climate Change

Block 4: Project Work (Practical Exercises/Case studies/Field visits)

COURSES

The detailed structure of Appreciation Programme on Sustainability Science is as follows:

BLOCK 1: INTRODUCTION

BLOCK 2: EVERGREEN REVOLUTION

BLOCK 3: THREATS: CLIMATE CHANGE

BLOCK 4: PROJECT WORK BASED ON PRACTICAL EXERCISES AND CASE STUDIES/FIELD VISITS

RELATED INFORMATION

Continuous Evaluation of Theory Component Assignment

There will be one assignment for each block. Each assignment shall be of 10 marks.

Term End Examination

Online examinations will be conducted in specified Regional centers.

Project work/dissertation

Templates shall be made available for synopsis submission, project uploading and evaluation.

Evaluation

1. Weightage to Continuous Evaluation and Term-End Evaluation

The weightage to the term-end examination will be 70% and the weightage to the continuous assessment will be 30%.

The theory term end examination will be of 70 marks. The minimum pass marks in term end examination will be 35.

2. Pass percentage for Assignment, term end Examination

The students will have to secure minimum 50% marks in all the components of the course- theory, continuous assessment (assignment), practical and as well as on aggregate basis for the course i.e. (i) theory (term end assignment); and (ii) on aggregate basis.

3. Modalities for Term End Examination

Theory: Term-End Examination 70% and continuous assessment: 30%

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3.LEADERSHIP PROGRAMME ON NUTRITION SECURITY & SUSTAINABLE DEVELOPMENT (LPNSSD)

Minimum Duration: 1 Month

Maximum Duration: 6 Months

Course Fee:

1. **Indian National:** Rs. 500/-

2. **SAARC & Non SAARC Countries:** \$ 40

Minimum Age: No bar

Maximum Age: No bar

Eligibility of admission

- The programme is open to candidates who are Graduate or equivalent in any discipline from any recognized University. There is a special focus on candidates working in the health and nutrition sector, including policy makers and programme implementers, civil society and public health nutrition professionals.

PROGRAMME OVERVIEW

The costs of malnutrition are very high: a vicious intergenerational cycle of poor health, high death rates, poor quality of life, decreased mental capacity and reduced worker productivity that can be estimated at more than 10 per cent of lifetime earnings for individuals and 2-3 percent gross domestic product for the nation. This means that improvement in nutrition is important for a healthy and productive life as well as for continued economic growth and development.

Nutrition security is broadly defined as physical, economic and social access to and utilisation of an appropriate, balanced diet, safe drinking water, environmental hygiene, and primary health for all.

Although India has made tremendous advances in science, medicine, information technology and many other fields, and has experienced unprecedented economic growth over the past decade, malnutrition remains unacceptably high. India, with perhaps the worst malnutrition problem in the world, continues to rank poorly on the human development scale.

Malnutrition in India persists despite an apparent surplus of food grains highlighting that national food security at the national level alone is not sufficient to attain nutrition security at the household and individual level. Nutrition security then is dependent on several inter-related factors such as access to food, community and household level food distribution, poverty, equity, access to health services, education levels, access to safe drinking water, environmental sanitation and hygiene and cultural beliefs and practices.

In order to improve nutrition security in the country the Government has been implementing a number of direct as well as cross-cutting programmes related to nutrition. There are, however significant gaps in public sector efforts underlining the need for greater focus on the household and community level rather than merely at the national or state level.

The programme on Nutrition Security and Sustainable Development under the aegis of IGNOU undertakes to review the current situation in India, the complex causes of poor nutrition, and evidence of what works to improve nutrition.

PROGRAMME OBJECTIVES

- This Nutrition Security Programme is intended to sensitise and guide policy and programme leaders to rely more on evidence based programming for achieving nutrition security and sustainable development.

PROGRAMME STRUCTURE

The programme is of one month duration and consists of four blocks. The fourth block refers to project work based on practical exercises and case studies/field visits. In order to be eligible for the award of the certificate, a student has to complete the following four blocks.

Block 1: Sustainable Development and Nutrition Security

Block 2: Interventions to Reduce Undernutrition in Infant and Young Children

Block 3: Interventions to Reduce Undernutrition in Girls and Women

Block 4: Project Work (any one)

COURSES

The detailed structure of Leadership Programme on Nutrition Security and Sustainable Development is as follows:

BLOCK 1: SUSTAINABLE DEVELOPMENT AND NUTRITION SECURITY

BLOCK 2: INTERVENTIONS FOR REDUCING UNDERNUTRITION IN INFANT AND YOUNG CHILDREN

BLOCK 3: INTERVENTIONS FOR REDUCING UNDERNUTRITION IN GIRLS AND WOMEN

BLOCK 4: PROJECT WORK (PRACTICAL EXERCISES/CASE STUDIES/FIELD VISITS). SELECT ANY ONE.

RELATED INFORMATION

Continuous Evaluation of Theory Component

Assignment

There will be one assignment for each block. Each assignment shall be of 10 marks.

Term End Examination

Online examinations will be conducted in specified Regional centers.

Project work/dissertation

Templates shall be made available for synopsis submission, project uploading and evaluation.

Evaluation

- 1. Weightage to Continuous Evaluation and Term-End Evaluation**

The weightage to the term-end examination will be 70% and the weightage to the continuous assessment will be 30%.

The theory term end examination will be of 70 marks. The minimum pass marks in term end examination will be 35.

2. Pass percentage for Assignment, term end Examination

The students will have to secure minimum 50% marks in all the components of the course- theory, continuous assessment (assignment), practical and as well as on aggregate basis for the course i.e. (i) theory (term end assignment); and (ii) on aggregate basis.

3. Modalities for Term End Examination

Theory: Term-End Examination 70% and continuous assessment: 30%

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4. APPRECIATION PROGRAMME ON SUSTAINABLE MANAGEMENT OF WETLANDS (APSMW)

Minimum Duration: 1 Month

Maximum Duration: 6 Months

Course Fee:

- 1. Indian National:** Rs. 500/-
- 2. SAARC & Non SAARC Countries:** \$ 40

Minimum Age: No bar

Maximum Age: No bar

Eligibility of admission

- The programme is open to the candidates who are Graduate in any discipline or its equivalent from any recognized University. The preference will be given to the post graduate students, researchers, scientists and policy makers working in the areas of environmental science, agriculture, urban and rural development, and sustainable development.

PROGRAMME OVERVIEW

Wetlands are transitional areas between deep water environments and well-drained uplands. Water usually moves very slowly through wetlands which is an important factor in determining their properties and functions. There are many different types of wetlands depending on soil factors, climate, water chemistry and the local anthropogenic impacts. Wetlands have played a crucial role in the human history in the local regions. Major stages in the evolution of life itself probably took place in nutrient-rich coastal waters. Rich civilizations in the world including Indus Valley Civilization also developed on the banks of great rivers.

Wetlands are one of the most productive ecosystems and play a significant role in the ecological sustainability of a region. The values of wetlands on the cultural, economical and ecological factors are immense. The geomorphological, climatic, hydrological and biotic diversity across continents have contributed to wetland diversity.

Despite the region's rapidly rising population, and the increasing demands being made upon the natural environments, Asia still possesses some of our planet's richest natural ecosystems. Among these are many of the most important tropical wetlands which provide their ecological and hydrological services to human society, especially in the extensive coastal wetlands of south and south-east Asia and along the river valleys which stretch through the continent. The wetland ecosystems provide several tangible economic resources for livelihoods of the dependent communities. However, the less obvious but equally important services are carbon absorption, reduction of soil erosion, shielding the coastal communities against high velocity of cyclonic storms, tsunami waves etc... thereby reducing loss of lives and livelihoods. Wetlands also provide detritus and nutrients as well as niche for breeding of a variety of fish, crabs, prawns, molluses etc...

India is blessed with water resources in the form of numerous rivers, streams and estuaries. By virtue of its geographical position and varied terrain and climatic zones, it supports a rich diversity of inland and coastal wetlands. According to Ministry of Environment and Forests (MoEF), India has 67429 wetlands covering an area of 4.1 million hectares. Out of these, 2175 are natural and 65254 man-made. Wetlands of India (excluding rivers) account for 18.4% of the country's geographical area of which 70% is under paddy cultivation.

Unfortunately, across the globe, wetlands are getting degraded due to manifold reasons, including anthropogenic and natural processes. Indian wetlands are no exception to this. Burgeoning population, developmental activities with harmful impact on wetlands, absence of management structure, lack of proper legislation and lack of awareness about the vital roles played by wetland ecosystems are some of the important causes that have contributed to their decline and extinction.

This Appreciation Programme provides strategies and approaches to link livelihood security to the local communities with the ecological security of the wetland ecosystems in a mutually-reinforcing manner. It also shows the way for sustainable management of wetlands.

PROGRAMME OBJECTIVES

- This Nutrition Security Programme is intended to sensitise and guide policy and programme leaders to rely more on evidence based programming for achieving nutrition security and sustainable development.
- To provide introduction to the importance of wetlands, the cause of their degradation, restoration efforts and sustainable management.
- To enhance awareness on the role of wetlands on social, cultural and livelihood dimensions of the dependent communities.
- To build capacity to meet the challenges of global warming, sea level rise and safeguarding lives and livelihoods of the coastal communities.
- To enhance preparedness to mitigate harmful influences of changes in hydrological conditions due to altered rainfall both in pattern and intensity.
- To emphasize the uniqueness of the "below sea level farming" in Kuttanad,

Kerala, as an example of traditional adaptation to sea level rise elsewhere.

PROGRAMME STRUCTURE

The programme is of one month duration and consists of four blocks. The fourth block refers to project work based on practical exercises and case studies/field visits. In order to be eligible for the award of the certificate, a student has to complete the following four blocks.

Block 1: General Information on Wetlands

Block 2: Integrity, Productivity, Ecological, Economical and social Benefits of Wetlands

Block 3: Degradation, Restoration, Conservation and Sustainable Management of Wetlands

Block 4: Agenda 21 and Wetlands/Case Study

COURSES

The detailed structure of Appreciation Programme on Sustainable Management of Wetlands is as follows:

BLOCK 1: GENERAL INFORMATION ON WETLANDS

BLOCK 2: INTEGRITY, PRODUCTIVITY, ECOLOGICAL, ECONOMICAL AND SOCIAL BENEFITS OF WETLANDS

BLOCK 3: DEGRADATION, RESTORATION, CONSERVATION AND SUSTAINABLE MANAGEMENT OF WETLANDS

BLOCK 4: AGENDA 21 AND WETLANDS/CASE STUDY

RELATED INFORMATION

**Continuous Evaluation of Theory Component
Assignment**

There will be one assignment for each block. Each assignment shall be of 10 marks.

Term End Examination

Online examinations will be conducted in specified Regional centers.

Project work/dissertation

Templates shall be made available for synopsis submission, project uploading and evaluation.

Evaluation

1. Weightage to Continuous Evaluation and Term-End Evaluation

The weightage to the term-end examination will be 70% and the weightage to the continuous assessment will be 30%.

The theory term end examination will be of 70 marks. The minimum pass marks in term end examination will be 35.

2. Pass percentage for Assignment, term end Examination

The students will have to secure minimum 50% marks in all the components of the course- theory, continuous assessment (assignment), practical and as well as on aggregate basis for the course i.e. (i) theory (term end assignment); and (ii) on aggregate basis.

3. Modalities for Term End Examination

Theory: Term-End Examination 70% and continuous assessment: 30%

EXAM FORM

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5. APPRECIATION PROGRAMME ON SUSTAINABLE MANAGEMENT OF GANGA – A SCIENTIFIC APPROACH (APSMG)

Minimum Duration: One and a half Months

Maximum Duration: Eight Months

Course Fee:

- 1. Indian National:** Rs. 850/-
- 2. SAARC & Non SAARC Countries:** \$ 40

Minimum Age: No bar

Maximum Age: No bar

Eligibility of admission

- The eligibility for the Programme is a Graduation degree in any subject. Post-graduate students, researchers, scientists, engineers, medical doctors, stake holders, policy makers, administrators and other professionals with requisite educational qualifications will be given preference.

PROGRAMME OVERVIEW

The River Ganga has been, since time immemorial, a unique National river System representing the tremendous socio-cultural, socio-economic, ecological and livelihood opportunities for millions of Indians, especially those residing in the states in which the river flows. Indians have worshipped the river; have studied all aspects of its flora and fauna, tourism, trade and environment related aspects. However, inspite of commendable efforts of the Central and State Governments the river has become extremely polluted. The purpose of this Appreciation Programme is to inculcate awareness and sensitize particularly the younger generation, about the importance of this river in every context. The issues have been flagged under different blocks. It is expected that the Appreciation Programme would help in developing major, inter-disciplinary activities of national relevance. This programme would facilitate and strengthen the ongoing, government supported research programmes, activates

of NGOs, industry and professional societies and the implementing agencies. Appropriate monitoring mechanisms would be put in place.

A sustainable science and technology-based strategy for the management of this great river is called for. This Appreciation Programme would provide a conceptual framework for launching many inter-disciplinary projects and would energise even individual initiatives. Once the overall population of our country is made aware of the special features of Ganga, it would be an automatic swing towards keeping the river clean and enjoy its natural beauty and continue to use the river water on a sustainable basis for our future generation.

PROGRAMME OBJECTIVES

- to create awareness about the significance of National river Ganga and its connectivity with our civilization and culture;
- to specify the source, origin and journey of the Ganga – tributaries, upstream and downstream linkages;
- to characterize the Indo-Gangetic Plains covering agriculture, industrial development, ecology and environment aspects and issues thereof;
- to identify and analyse issues related to:
 - ❖ public health – water and vector-borne diseases, sanitation and waste disposal systems
 - ❖ economy
 - ❖ livelihood security
 - ❖ demographic dimensions;
- to paraphrase the scope for research and development, and use of technologies;
- to summarise various measures for capacity-building for implementation of various programmes largely covering the above objectives;
- to illustrate socio-cultural aspects and issues related to policies, programmes legislations, regulations and various nodal institutional arrangements; and
- to analyse the role of public, media (electronic and print), NGOs, research and academic institutions, industrial houses and other stake holders.

PROGRAMME STRUCTURE

The programme is of one and a half months duration and consists of five blocks. Project work based on practical exercises and case studies/field visits. In order to be eligible for the award of the certificate, a student has to complete the following five blocks.

Block 1: Source, Origin and Journey

Block 2: Ecology and Environment

Block 3: Economic Issues and Livelihood Security

Block 4: Research, Development, Technologies, Capacity Building and Public Health

Block 5: Socio-Cultural Aspects and Policy

Project Work

COURSES

The detailed structure of Appreciation Programme on Sustainable Management of Ganga A Scientific Approach is as follows:

BLOCK 1: SOURCE, ORIGIN AND JOURNEY

BLOCK 2: ECOLOGY AND ENVIRONMENT

BLOCK 3: ECONOMIC ISSUES AND LIVELIHOOD SECURITY

BLOCK 4: RESEARCH, DEVELOPMENT, TECHNOLOGIES, CAPACITY BUILDING AND PUBLIC HEALTH

BLOCK 5: SOCIO CULTURAL ASPECTS AND POLICY

RELATED INFORMATION

Continuous Evaluation of Theory Component

Assignment

There will be one assignment for each block. Each assignment shall be of 6 marks.

Term End Examination

Online examinations will be conducted in specified Regional centers.

Project work/dissertation

Templates shall be made available for synopsis submission, project uploading and evaluation.

Evaluation

1. Weightage to Continuous Evaluation and Term-End Evaluation

The weightage to the term-end examination will be 70% and the weightage to the continuous assessment will be 30%.

The theory term end examination will be of 70 marks. The minimum pass marks in term end examination will be 35.

2. Pass percentage for Assignment, term end Examination

The students will have to secure minimum 50% marks in all the components of the course- theory, continuous assessment (assignment), practical and as well as on aggregate basis for the course i.e. (i) theory (term end assignment); and (ii) on aggregate basis.

3. Modalities for Term End Examination

Theory: Term-End Examination 70% and continuous assessment: 30%

EXAM FORM

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6. LEADERSHIP PROGRAMME ON HIMALAYAN ECOSYSTEMS (LPHECO)

Minimum Duration: 1 Month

Maximum Duration: 6 Months

Course Fee:

1. **Indian National:** Rs. 500/-

2. **SAARC & Non SAARC Countries:** \$ 40

Minimum Age: No bar

Maximum Age: No bar

Eligibility of admission

- The programme is open to the candidates who are Graduate in any discipline or its equivalent from any recognised University. The preference will be given to the post graduate scholars, scientists and policy makers working in the areas of agriculture, rural development, environmental science and sustainable development.

PROGRAMME OVERVIEW

The issues of global ecological deterioration and recent impacts of global climate change has drawn the attention over the importance of Himalayan ecosystem which is first to be hit by these changes. Therefore, it is essential to upgrade people's awareness and concern through short educational programs with objectives to advance scientific knowledge, to evolve integrated management strategies, demonstrate their efficacy for conservation of natural resources and to ensure environmentally sound development in the entire Indian Himalayan Region (IHR). The educational modules would also encourage undertaking research and technology development linking with various National and International Organizations committed for the Himalayan and other mountainous regions.

PROGRAMME OBJECTIVES

- To sensitize and strengthen awareness about the Himalayan Ecosystems in the context of Sustainable Development.
- To link and evolve the linkages of livelihood and ecological security in the mountain region
- To improve the awareness among the stakeholders about the impact of climate change and management.

PROGRAMME STRUCTURE

The programme is of one month duration and consists of four blocks. The fourth block refers to Project work based on practical exercises and case studies/field visits. In order to be eligible for the award of the certificate, a student has to complete the following four blocks. The purpose is to provide an opportunity to the students to apply the knowledge they have acquired in course of study on scientific principles and technological methods underpinning the concept and pathways of Himalayan ecosystems and sustainable development. The students may take project work on any of the themes studied taking into account local field conditions. The students may also develop a research/policy paper or prepare a plan of action based on the recommendations of Agenda 21 Plan of Action.

Block 1: General Information on Wetlands

Block 2: Integrity, Productivity, Ecological, Economical and social Benefits of Wetlands

Block 3: Degradation, Restoration, Conservation and Sustainable Management of Wetlands

Block 4: Agenda 21 and Wetlands/Case Study

COURSES

The detailed structure of Leadership Programme on Himalayan Ecosystems is as follows:

BLOCK 1: AN INTRODUCTION TO MOUNTAIN ECO-SYSTEM

BLOCK 2: HIMALAYAN LIVELIHOOD SYSTEMS

BLOCK 3: CHALLENGES TO SUSTAINABLE DEVELOPMENT

BLOCK 4: PROJECT WORK (CASE STUDIES/FIELD VISITS)

RELATED INFORMATION

Continuous Evaluation of Theory Component

Assignment

There will be one assignment for each block. Each assignment shall be of 10 marks.

Term End Examination

Online examinations will be conducted in specified Regional centers.

Project work/dissertation

Templates shall be made available for synopsis submission, project uploading and evaluation.

Evaluation

1. Weightage to Continuous Evaluation and Term-End Evaluation

The weightage to the term-end examination will be 70% and the weightage to the continuous assessment will be 30%.

The theory term end examination will be of 70 marks. The minimum pass marks in term end examination will be 35.

2. Pass percentage for Assignment, term end Examination

The students will have to secure minimum 50% marks in all the components of the course- theory, continuous assessment (assignment), practical and as well as on aggregate basis for the course i.e. (i) theory (term end assignment); and (ii) on aggregate basis.

3. Modalities for Term End Examination

Theory: Term-End Examination 70% and continuous assessment: 30%

EXAM FORM

7. APPRECIATION PROGRAMME ON SUSTAINABLE MANAGEMENT OF BIODIVERSITY (APSMBIO)

Minimum Duration: 1 Month

Maximum Duration: 6 Months

Course Fee:

1. **Indian National:** Rs. 500/-

2. **SAARC & Non SAARC Countries:** \$ 40

Minimum Age: No bar

Maximum Age: No bar

Eligibility of admission

- The eligibility for joining this course would be a Graduation degree in any subject. The post graduate students, researchers, scientists, engineers, medical doctors, stake holders, policy makers, administrations, and other professionals with requisite educational qualifications will be given preference.

PROGRAMME OVERVIEW

Biodiversity provides building blocks for sustainable food, health and livelihood security systems. Biological diversity, or biodiversity, is a term used to describe the myriad life forms found on Earth. These are the legacy of billions of years of evolution, shaped by natural processes and, increasingly, by the activities of humans. Biodiversity manifests itself at three levels: species diversity which refers to the numbers and kinds of living organisms; genetic diversity which refers to genetic variation within species; and ecosystem diversity which denotes the variety of habitats, biological communities and ecological processes. The Convention on Biological Diversity is probably the most all-encompassing international agreement ever adopted. It seeks to conserve the diversity of life on Earth at all levels – genetic, population, species, habitat, and ecosystem – and to ensure that this diversity continues to maintain the life support systems of the biosphere overall. It recognizes that setting social and economic goals for the use of biological resources and the benefits derived from genetic resources is central to the process of sustainable development, and that this in turn will support conservation.

In April 2002, the Parties to the Convention on Biological Diversity (CBD) committed themselves to achieve by a significant reduction of the current rate of biodiversity loss at the global, regional and national level as a contribution to poverty alleviation and to the benefit of all life on Earth. This target was subsequently endorsed by the World Summit on Sustainable Development and the United Nations General Assembly and was incorporated as a target under the Millennium Development Goals. At the 10th Conference of Parties (COP) to the Convention on Biological Diversity in October in Nagoya, Japan, the Nagoya Protocol was adopted which reminds decision – makers that natural resources are not infinite and sets out a philosophy of sustainable use. The conservation and sustainable use of biological diversity, and the eradication of extreme poverty are two of the main global challenges of our time. It has been recognized by the international community that these two challenges are intimately connected, and require a coordinated response.

Biodiversity is Humankind's Life Insurance: Biodiversity loss is rapid and ongoing. Over the last 50 years, humans have changed ecosystems faster and more extensively than in any comparable period of time in human history. Tropical forests, many wetlands and other natural

habitats are shrinking in size. Species are going extinct at rates 1,000 times the background rates typical of Earth's past. The direct causes of biodiversity loss, habitat change, and overexploitation, the introduction of invasive alien species, nutrient loading and climate change show no sign of abating. As biodiversity loss proceeds, our knowledge of its importance is growing. The world ecological footprint is currently double its biological capacity. By conserving and enhancing its natural resource base and using its resources sustainably we can improve the resource efficiency of its economy and reduce its dependence on natural resources. This course promotes an improved quality of life, sustainable use, the protection of natural resources and equitable economic prosperity.

PROGRAMME OBJECTIVES

The sustainable management of biodiversity is one of the most important challenges facing humanity; one that requires the active participation of dedicated professionals who are committed to the interdisciplinary nature of the subject. Our generation has the unenviable task of making hard, possibly irrevocable, decisions on natural resource, allocation and management issues at local, regional and international levels. In this context, the aim of this Appreciation programme is to provide a critical and conceptually sophisticated understanding of biodiversity science and the socio-economic, political, cultural and institutional environments within which management and policy decision are made.

- To promote awareness and capacity building for sustainable management of biodiversity for mainstreaming biodiversity into the daily lives of individuals, recreating the relationship between people and nature, securing the linkage between forests, rivers, and the sea and taking actions in a global context.
- To facilitate a critical appreciation/understanding of the science underpinning biodiversity and will target the growing need for expertise in sustainable management of biodiversity in a changing climate and the need for mainstreaming these issues in the development planning and poverty reduction.
- To sensitize people to the issues around biodiversity, threats posed to it and will promote the conservation of species diversity, genetic diversity, and biological diversity of ecosystems.
- To enable the professionals with innovative knowledge, skills and values in sustainable management of biodiversity through national and international level policies and action plans across the globe of an urgency of action to address ecosystems degradation and biodiversity loss.
- To inculcate the virtues of biological diversity and the associated indigenous knowledge among the learners and empower them with conservation principles which is the guiding force behind the sustainable management of biodiversity.

PROGRAMME STRUCTURE

The programme is of one month duration and consists of four blocks. The project work based on practical exercises and case studies/field visits. In order to be eligible for the award of the certificate, a student has to complete the following four blocks.

Block 1: Biodiversity and Its Importance

Block 2: Agrobiodiversity

Block 3: Threats to Biodiversity

Block 4: Sustainable Use of Biodiversity

COURSES

The detailed structure of Appreciation Programme on Sustainable Management of Biodiversity is as follows:

BLOCK 1: BIODIVERSITY AND ITS IMPORTANCE

BLOCK 2: AGROBIODIVERSITY

BLOCK 3: THREATS TO BIODIVERSITY

BLOCK 4: SUSTAINABLE USE OF BIODIVERSITY

RELATED INFORMATION

Continuous Evaluation of Theory Component Assignment

There will be one assignment for each block. Each assignment shall be of 7.5 marks.

Term End Examination

Online examinations will be conducted in specified Regional centers.

Project work/dissertation

Templates shall be made available for synopsis submission, project uploading and evaluation.

Evaluation

1. Weightage to Continuous Evaluation and Term-End Evaluation

The weightage to the term-end examination will be 70% and the weightage to the continuous assessment will be 30%.

The theory term end examination will be of 70 marks. The minimum pass marks in term end examination will be 35.

2. Pass percentage for Assignment, term end Examination

The students will have to secure minimum 50% marks in all the components of the course- theory, continuous assessment (assignment), practical and as well as on aggregate basis for the course i.e. (i) theory (term end assignment); and (ii) on aggregate basis.

3. Modalities for Term End Examination

Theory: Term-End Examination 70% and continuous assessment: 30%

EXAM FORM

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