

CERTIFICATE COURSE SYLLABUS

Curriculum & Evaluation Procedure

NAME OF DEPARTMENT: Botany (BOTCC1CSB)

NAME OF COURSE :Climate change, Sustainability and Biodiversity Management


INTAKE : 30

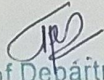
DURATION OF THE COURSE : Each certificate programme is of 30 hours, can be completed within in 3-6 months duration and the Advanced Diploma can be achieved within 12-18 months while completing any of the three certificate programs.

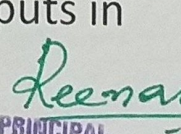
The course starts with 2-3 days initial intensive training and remaining as online modules. Interim evaluation, assessments and final examination will be online. 5 days of internship are essential to complete each certificate programs.

FEES : 1000 per students

OBJECTIVE : Climate change, Ecosystem monitoring and sustainable resources management are the important requirements of the present time. Knowledge on conservation legislation and modern computer skills like Geographic Information Systems enable students to have practically skilled in Natural Resource Management. This is essential requirements for those who seek interdisciplinary inputs in

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biodiversity conservation and ecosystem management in the changing climate.

COLLABORATION : These courses are given in collaboration with Western Ghats Hornbill Foundation, Kerala GIS Community, UPSA Nainital etc.

KEY MODULE : Fundamentals of Ecology, Conservation, Forest Botany, Climate Change and Natural Resource Management. Conservation laws such as Biodiversity Act and Forest Rights Act. Basic knowledge on biodiversity surveys, Ecological monitoring, Eco restoration and Riparian Biodiversity. Technical skills on Rapid biodiversity Survey, Preparation Management plans (Forest, PBR and CFR management Plan), Use of GIS and Remote Sensing. Use of source softwares, biological data bases etc.

OUTCOME OF THE COURSE : the participants are enabled to work on natural resource management, biodiversity conservation, surveys and management. They can support projects envisaged for Grama Sabahas, BMCs of Panchayaths, Forest, Biodiversity departments along with any kind of biodiversity linked projects.

Detailed Syllabus :

Module 1 : Fundamentals of Ecology, Ecosystem structure and Function, Ecosystem Energetics; Ecosystem Dynamics – Major

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biomes of the world, ecosystem degradation and Natural Resource Management. History of Conservation.

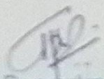
Module 2: Climate essentials, Climate change – science, Anthropogenic Drivers of Climate Change, Impact of Climate change (green house effect, sea level rise, global temperature, natural calamities) and Climate Change Predictions.

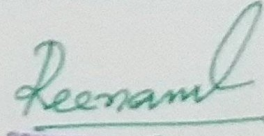
Module 3: Biodiversity Definition, Biodiversity hotspots, Significance of Biodiversity, Biodiversity Loss, Biodiversity Conservation – Global, National, Regional Conservation efforts. Threatened species – IUCN categories, Various conservation areas in India, Kerala. Conservation Movements in India, Kerala.

Module 4: Sustainability and sustainable development, global concerns , UN, International facilities for Biodiversity, Sustainability and Climate change – Convention on Biological Diversity (CBD), United Nations Climate Change Conference (CoP), Climate change mitigation, Climate change adaptation, Sustainability goals and climate change.

Module 5: Important Indian legislations: Indian Forest Act 1927, Wildlife Protection Act 1977, Indian Forest Conservation Act 1980, MoEFCC, Biodiversity Act 2002, Forest Right Act 2006. Biodiversity and Intellectual property Rights, Environmental protection Act, EIA 7 public Hearing.


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Module 6: Conservation and people movements in India. Eco politics, Ethnic Communities and Biodiversity Conservation. Indigenous rights and Conservation. Current international and national remedies for inclusive conservation. Statutory bodies for people representation in climate change adoption, sustainability and Biodiversity conservation.

Module 7: Practical Modules : Introduction to Birds, Plants, Mammals, Odonates and Fishes of Forest /Wetland ecosystems in Kerala. Conduct Surveys. Ecosystem monitoring, Ecological Monitoring, Fundamentals of Eco restoration. People biodiversity Register, CFR Management Plans Committees, Plastic and waste management, Green Auditing, Green protocol, Carbon Foot Prints, Flood/ biodiversity surveys. Forest Surveys, Management Plans.

The 6 modules have to be covered in theory sessions/attending seminars and online modules. Any 5 days of participation in practical module 7 – is compulsory

Each module is followed by discussions, assignments and internal online examinations

CONTACTS : (H.O.D 9447444788, Concerned convener – Dr. Amitha Bachan K.H. 9497627870, Dr. Girija T.P. 9526570267)

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