



TRAINING CUM SENSITIZATION WORKSHOP FOR POST GRADUATES STUDENTS ON CAPACITY BUILDING OF BIODIVERSITY CONSERVATION OF GANGA RIVER AND ITS HABITAT

12th to 14th JUNE, 2017

DETAILED REPORT

As part of the NMCG-WII project “Biodiversity Conservation and Ganga Rejuvenation” under *Namami Gange* Programme, the team of WII conducted a 3 days Training cum Sensitization Workshop for Post graduates Students in the WII headquarters, Dehradun during 12th to 14th June 2017. This was done for the capacity building of student’s on capacity building of biodiversity conservation of Ganga River and its habitat for the conservation of Ganga's Aqualife and its ecosystem. The purpose of the training aimed to develop the skills of the students in assessing and monitoring the biodiversity of Ganga River. Around 65 participants have take part in training programme. The target participants were post graduate students from different universities of Doon University, SAI Group of Institutions, Dehradun, Indraprastha University, Delhi, Aligarh Muslim University, Uttar Pradesh and MSU, Gujarat.

On the first day, Dr. Sangeeta Angom, Training Coordinator, welcomed all the students and faculties who participated in the training cum sensitization workshop and encourage the participants to take activities, individually and collectively, in their surroundings in making them trained and sensitized about maintaining ecological flow of Ganga River and adverse environmental impact caused by various waste disposed directly in the River ecosystem. An introduction round of all the participants of the workshop was conducted. Dr. Shivani Bathwal, Project Associate, gave an over view of the training cum sensitization workshop in detail. She spoke on Importance of river and wetland ecosystem highlighting the role of students in Biodiversity conservation of Ganga River at individual level. Dr. Niladri Dasgupta, Project Scientist presented the objectives and goals of the project NMCG-WII project “Biodiversity Conservation and Ganga Rejuvenation”. Dr. Arvind Kumar Dwivedi, Project Associate, gave a detail presentation on Fish biodiversity of Ganga River and its techniques for identification features of related species. Dr. Pariva Dobriyal, Project Scientist, highlighted the social and cultural value of Ganga River and its ecological significance in maintaining the biodiversity conservation. Dr. Abhijit Das, Scientist C, enrich the students about faunal diversities of Amphibian and Reptiles associated to Ganga River

basin followed by a detailed description on breeding and residents Birds of Ganga River by Dr. Suresh Kumar, Scientist E. Dr. Sangeeta Angom, Training Coordinator, talked about different sources of Ganga River pollution, their waste and suggested the mitigation measures to minimise the pollution level. Dr. Anju Baroth, Scientist C, gave a detail and interactive presentation with the students regarding the introduction to the subject Ecotoxicology, and detection of eco-toxicants in Ganga River and other river ecosystem of the World. Dr. V.P. Uniyal, Scientist F, explained the capturing techniques for Invertebrate Fauna with reference to Insects as an indicator species in a freshwater ecosystem.

On the second day, Dr. Rajeev Chauhan, Conservation officer, presented on the principle and techniques of Rescue and Rehabilitation of aquatic fauna with reference to Crocodiles and Turtles. Dr. Sandeep Gupta, Scientist E, discussed the collection techniques of various biological samples including fresh and decomposed tissue, burnt samples, ashes etc. its preservation techniques, species identification and sequencing with reference to fauna of Ganga River basin. Mr. Ravindra Nath Tripathi, Project Fellow Database, talked about the Data profiling, quality, integration, enrichment, monitoring and evaluation related to Data management software. Subsequently, the students were informed about the group activity, and the groups were divided into six groups, which had representatives from all the Government departments and line agencies. The groups were told to discuss and write down their perspective on the issues related to benefits from Ganga and detrimental actions towards Ganga River and the solutions for resolving these issues. There was an interactive session with the groups and were asked to represent each group separately with their issues and solutions respectively.

On the Third day, the first half, was organised a guided Nature Trail walk by Dr. Niladri Das gupta, Project Scientist, and Dr. Amit Kumar for the students & faculties of SAI Group of Institutions to provide them exposure to the identifications and monitoring techniques of birds and natural surroundings of the WII campus. On the second half, the students were given hands on training on genetic techniques related to preservation techniques of biological samples, DNA extraction protocols and Sequencing techniques and interpretations. Training impact assessment and feedback forms were circulated. All the participating students and faculties were given certificated by Dr. Sandeep Gupta, Scientist E, Dr. Suresh Kumar, Scientist E and Dr. Anju Baroth, Scientist C. The session was concluded with vote of thanks by Dr. Sangeeta Angom, Training Coordinator, NMCG-WII.

Programme Schedule

Day 1	
1000 -1030 h	Registration
1030-1040 h	Workshop inauguration and welcome address- Dr. Sangeeta Angom
1040-1050 h	About the Workshop – Dr. Shivani Bathwal
1050-1100 h	Introduction to Importance of Ganga River and wetland ecosystem – Dr.

	Shivani Barthwal
1100-1130 h	Tea
1130 -1145h	Introduction to the NMCG-WII project “Biodiversity Conservation and Ganga Rejuvenation”- Dr. Niladri Das Gupta
1145 - 1200 h	Fish biodiversity of Ganga river – Dr. Arvind Kumar Dwivedi
1200 - 1230 h	Ganga – its: Social, Cultural and ecological significance- Dr. Ruchi Badola
1230 - 1300 h	Aquatic Macro fauna: Ecological and Biological Attributes of Reptiles of Ganga River (Amphibians and Reptiles) - Dr. Abhijit Das
1300-1400 h	Lunch
1400-1430 h	Aquatic Macro-fauna: Ecological and Biological Attributes of Aquatic Birds - Dr. Suresh Kumar
1430 - 1445 h	Ganga River Pollution: Solution and Mitigation- Dr. Sangeeta Angom
1445 - 1500 h	Introduction to Ecotoxicology: Presence/Detection of Ecotoxicants in Ganga River- Dr. Anju Baroth
1500 - 1530 h	Capturing techniques for Invertebrate Fauna with reference to Insects – Dr. V.P. Uniyal
Day 2 (Technical Sessions)	
0930-1030 h	Monitoring of Aquatic fauna of Ganga River with Special Reference to Crocodiles and Turtles - Dr. Niladri Dasgupta
1030-1100 h	Tea
1100 - 1130 h	Principle and techniques of Rescue and Rehabilitation of Aquatic Fauna with Reference to Crocodiles and Turtles – Dr. Rajeev Chauhan
1130 - 1230 h	Biological sample collection and species identification with reference to aquatic fauna of Ganga River- Dr. Sandeep Gupta
1230 - 1300 h	Ecotoxicology: Sample collections and protocol of analysis - Ruchika Shah
1300 - 1400 h	Lunch
1400 - 1430 h	Group Activity – Part I <ul style="list-style-type: none"> • Benefits from Ganga • Detrimental actions towards Ganga
1430- 1500 h	Group Activity - Part II <ul style="list-style-type: none"> • Remedial actions
1500 -1530 h	Presentations by the groups
Day 3 (Field activity and Lab)	
0800 - 1000 h	Orientation and Field Exposure – Walk along WII Trails –Dr. Niladri Das Gupta/Dr. Amit Kumar
1000 - 1030 h	Tea
1030 - 1130 h	Techniques use in Genetic analysis– Mirza/ Bhim/ Ashutosh
1130 - 1200 h	Data Analysis and Interpretation- Dr. Shivani Barthwal
1200 - 1300 h	Training Impact Assessment/ Feedback
1300-1400 h	Lunch
1300 - 1400 h	Distribution of Certificates
1400-1430 h	Concluding remarks, future actions, and vote of thanks

PHOTO GALLERY



