ANNUAL REPORT 2022-2023

Blended Capacity Building Programme for Stakeholders of River Ganga

NAMAMI GANGE

सत्यमेव जयते

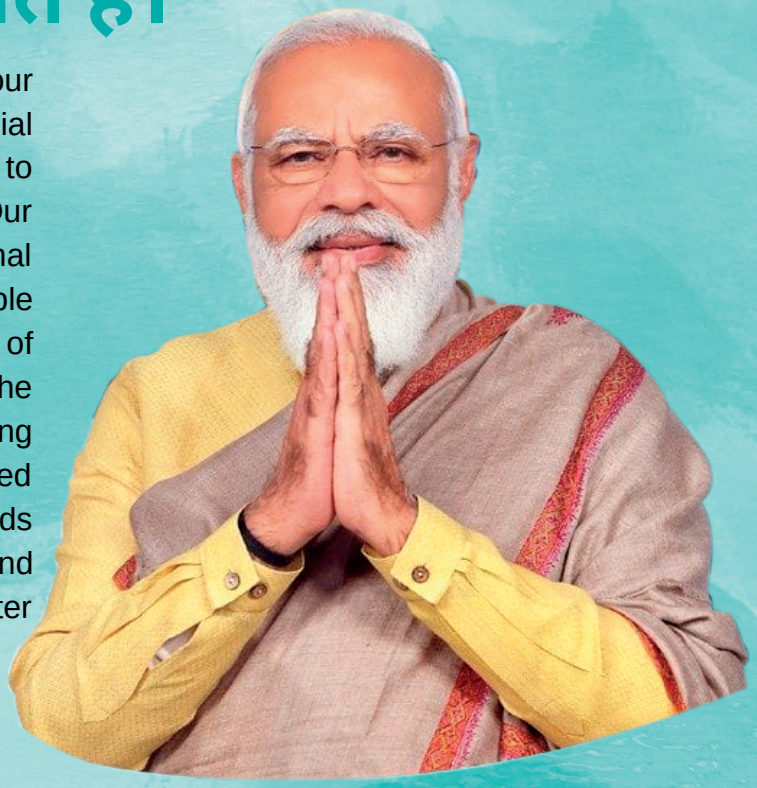
INDIAN INSTITUTE OF PUBLIC ADMINISTRATION

कर्मसु कौशलम्

Indian Institute of Public Administration
New Delhi

हम जल को देव की संज्ञा देते हैं, नदियों को माँ मानते हैं।

Water conservation is the culture of our society and the centre of our social thinking. That's why we consider water to be God and our rivers as mothers. Our society makes such an emotional connection with nature, then sustainable development becomes its natural way of life. The need to seek solutions to the challenges of the future while rekindling the consciousness of the past. We need to instill faith in the countrymen towards the values of water conservation and remove every obstacle that causes water pollution.



PM Narendra Modi
16 Feb 2023

FOREWORD

Reflecting on the past year, several significant events and themes stand out, defining its essence. In 2020, my Indian Institute of Public Administration (IIPA) experienced a series of fresh and ongoing complex situations that tested and affirmed our response mechanisms. Our primary focus was on building capacity for various stakeholders, including school students, teachers, universities, researchers, scholars, and others, while also exploring the associated opportunities and challenges. Despite grappling with the unprecedented black swan event, the COVID-19 pandemic, my IIPA team achieved tremendous success with our project titled "Blended Capacity Programme for Stakeholders for River Ganga sponsored by *Namami Gange* Programme". This ground breaking initiative was conducted in blended mode, a first of its kind at focused at youth of country, and was sponsored by the 'National Mission for Clean Ganga' (NMCG) under the Government of India.

The IIPA team held tall despite all obstacles and delivered the capacity building programme for urban local body official and the consultation with spiritual leaders focusing on sustenance of G*hats* and restoration of *Ganga*. The stakeholders were also provided with a sense of ownership through personal logins for association with IIPA's Learning Management System (LMS) an interactive online learning platform. I am delighted to present the Annual Report 2022-2023 that provides planning and execution of the deliverables for third year of the project. I hope that IIPA and NMCG will continue to collaborate to develop our collective capacities by learning from and with one another. Our connections with external groups, which reflect our values and goals and can contribute their experience and expertise, also strengthen us. We are constantly working to strengthen our accountability and transparency procedures across our network. The collaborators we serve are at the heart of what we do, and their commitment to improvement drives ours. This entails interacting meaningfully with our beneficiaries and providing them with a voice through a variety of feedback options. We encourage a culture of sharing information and expertise throughout our network, which is supported by rigorous monitoring and evaluation. I would like to thank my IIPA team for their dedication and excitement in completing this project. This project has engaged over 24,000 stakeholders from star states of *Ganga* Basin and it has got an incredibly positive response and recognition from its participants. I wish the team best of luck in all their future undertakings. I believe this has been a fantastic year. I am pleased with our organization's continued progress and look forward to the Phase II of the project in anticipation.

(S.N Tripathi)

ACKNOWLEDGEMENT .....

We are delighted to announce the successful completion of the third year of the project titled "Blended Capacity Building Programme for Stakeholders of River Ganga sponsored by *Namami Gange* Programme". This project, generously sponsored by the National Mission for Clean Ganga under the Department of Water Resources, River Development, and Ganga Rejuvenation (DoWR, RD & GR), Ministry of Jal Shakti, Government of India, owes its success to the collaborative efforts of many individuals. We extend our sincerest gratitude to NMCG and the Government of India for entrusting us with this significant and meaningful project. Their everyday support and guidance throughout the year have been instrumental in our accomplishments.

We would like to express our heartfelt gratitude to Shri G. Asok Kumar (IAS), Director General, NMCG, for his unwavering support and active involvement in the capacity-building programmes. Our sincere appreciation also goes to Shri Jagmohan Gupta, Advisor, NMCG; Shri Brijesh Sikka, Senior Consultant, NMCG. Their guidance and commitment has been invaluable to the success of our endeavours. Their support and technical expertise have played a vital role in the seamless implementation of the project. We would also like to extend our gratitude to Ms. Priyanka Jha, Ms. Smriti, Mr. Pramanu, and the *Namami Gange* staff for their timely assistance and provision of essential data. Their contributions have been instrumental in ensuring the smooth progress of our work.

We would like to express our profound gratitude to Shri S.N. Tripathi (IAS R), Director General, IIPA, for his invaluable support and guidance as a member of the Project Advisory Committee. His expertise and insights have played a crucial role in steering the activities of the project. Our heartfelt thanks also goes to Sh. C.K. Varshney, Former Dean of Jawaharlal Nehru University (JNU) and Emeritus Professor; Sh. S.S. Satapathy, Former Director, Climate Change, Ministry of Environment, Forest and Climate Change (MoEF&CC); and Dr. J.S. Kamyotra, Former Member Secretary, Central Pollution Control Board (CPCB), for accepting our request to be part of the Project Advisory Committee. Their participation and mentorship have been instrumental in shaping the direction and progress of the project. We acknowledge and appreciate the commitment and contributions of these esteemed individuals, whose collective wisdom and experience have greatly enhanced the quality and impact of our project. Additionally, we extend our sincere thanks to Shri Amitabh Ranjan, Registrar, IIPA, for his assistance in organizing the logistics for the project activities. His support has been indispensable to the successful execution of the project. We are thankful to our collaborating partners Imran Ahmad (IdeaptDigital), Miranda House, Institute of Environment & Sustainable Development (IESD) Department, Banaras Hindu University (BHU), Indraprastha College for Women (IPCW), University of Delhi (DU), Rotary Club Kolkata, Jadavpur University, Biswajit Roy Chowdhury, Founder, South Asian Institute for Advanced Research and Development (SAIARD), Bhumiruha, University School of Environmental Science (USEM), Guru Gobind Singh Indraprastha University (GGSIPU).

We would also like to extend our appreciation to the IIPA research, administration, finance, publication and support staff including Shri O.P. Chawla, Shri H.C. Yadav, Ms. Meghna Chukkath, Ms. Sarita, Ms. Chanchal, Ms. Kanishka, Ms. Anugya, Ms. Monika, Ms. Himanshi and Mr. Ratik for their unwavering support and assistance in successfully completing the deliverables of the third year. Their contributions have been invaluable. Furthermore, we would like to acknowledge the immense contribution of the officials, principals, teachers, school and college students, and academia from the eleven basin states of the *Ganga* River. Their enthusiastic participation and engagement have been essential to the project's success. We are truly grateful to all those mentioned above for their invaluable support and dedication, without which the project would not have achieved its goals.

(Vinod K. Sharma) (Shyamli Singh)

PROJECT ADVISORY COMMITTEE MEMBERS

SHRI S.N. TRIPATHI

DG IIPA

SHRI G. ASOK KUMAR

DG NMCG

PROF. C. K. VARSHNEY

(MEMBER)

PROF. EMERITUS,
School of Environmental Sciences, JNU

ER. J.S. KAMYOTRA

(SPECIAL INVITEE)

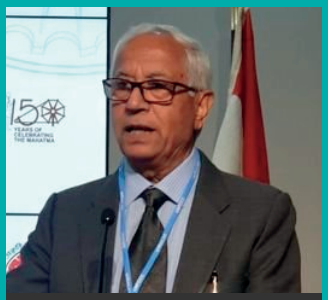
Former Member Secretary,
CBCB

DR. S. SATAPATHY

(SPECIAL INVITEE)

Ex-Director Climate Change
MOEFCC, Government of India

PROJECT INVESTIGATORS



PROF. VINOD K. SHARMA

FACULTY IIPA

DR. SHYAMLI SINGH

FACULTY IIPA

Prof. Sharma is a Senior Professor at Indian Institute of Public Administration (IIPA), New Delhi. Prof Sharma has been awarded 2022 *Subhas Chandra Bose Aapda Prabandhan Puraskar* for his path-breaking work. He is the founder of National Disaster Management Authority and a vice-chairman of Sikkim State Disaster Management Authority, Govt. of Sikkim. Areas of his expertise are Natural Resource Management, Disaster Management, Drought Administration, Agriculture and River Basin Management.

Dr. Singh is a faculty and head of Centre for Environment and Climate Change at Indian Institute of Public Administration (IIPA), New Delhi, India. She has extensive expertise in research, teaching and consultancy. She is the lead project director of various prestigious projects and studies. With more than twenty three years of work experience in different capacities of Environment, she has authored several textbooks, monographs, articles and discussion papers on Environment Management and Climate Change.

PROJECT TEAM

Ar. Kanishka Sharma

RESEARCH OFFICER

Ms. Anugya Singh

RESEARCH ASSISTANT

Ms. Monika Saini

RESEARCH ASSISTANT

Ms. Himanshi Negi

RESEARCH ASSISTANT

Mr. Ratik Vohra

WEB DEVELOPER

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CHAPTER 1

Laxman Jhula, Rishikesh

INTRODUCTION TO PROJECT

‘*Namami Gange* Programme’, is an Integrated Conservation Mission, approved as ‘Flagship Programme’ by the Union Government in June 2014 with budget outlay of Rs. 20,000 Crore to accomplish the twin objectives of effective abatement of pollution, conservation, and rejuvenation of National River Ganga. Main pillars of the *Namami Gange* Programme are Sewerage Treatment Infrastructure, River-Front Development, River-Surface Cleaning, Bio-Diversity, Afforestation, Public Awareness, Industrial Effluent Monitoring and Ganga Gram. One of the key missions under the programme is Public Awareness. The mission has been ongoing in formats of series of activities such as events, workshops, seminars and conferences and numerous IEC activities were organized to make a strong pitch for public outreach and community participation in the programme. Various awareness activities through rallies, campaigns, exhibitions, cleanliness drives, competitions, plantation drives, and development and distribution of resource materials were organized and for wider publicity the mass mediums such as TV/Radio, print media advertisements, featured articles and advertorials were published. *Namami Gange* theme song was released widely and played on digital media to enhance the visibility of the programme. NMCG ensured presence at social media platforms like Facebook, Twitter, YouTube and the like.

Image 01: Glimpses from video session during school student's capacity building programme

1.1 Indian Institute of Public Administration and *Namami Gange* Programme

For achieving the desired objectives of the programme, varied stakeholders have been looped in by NMCG for treating and managing Ganga basin. With this as a backdrop, NMCG entrusted a project “Blended Capacity Building Programme for Stakeholders of River Ganga” sponsored by *Namami Gange* Programme to the Indian Institute of Public Administration (IIPA) for three years i.e., from 2020-2023. The main objective of the project is to convey the importance of river Ganga as well as the threats it is facing in the current scenario to the stakeholders at large. Accordingly, the project aimed at conducting multiple "Blended Capacity Building Programmes", which is a blend of Face-to-Face sessions i.e., classroom sessions and Virtual Internet Participation. In a nutshell, it is a journey from desk to desktop.

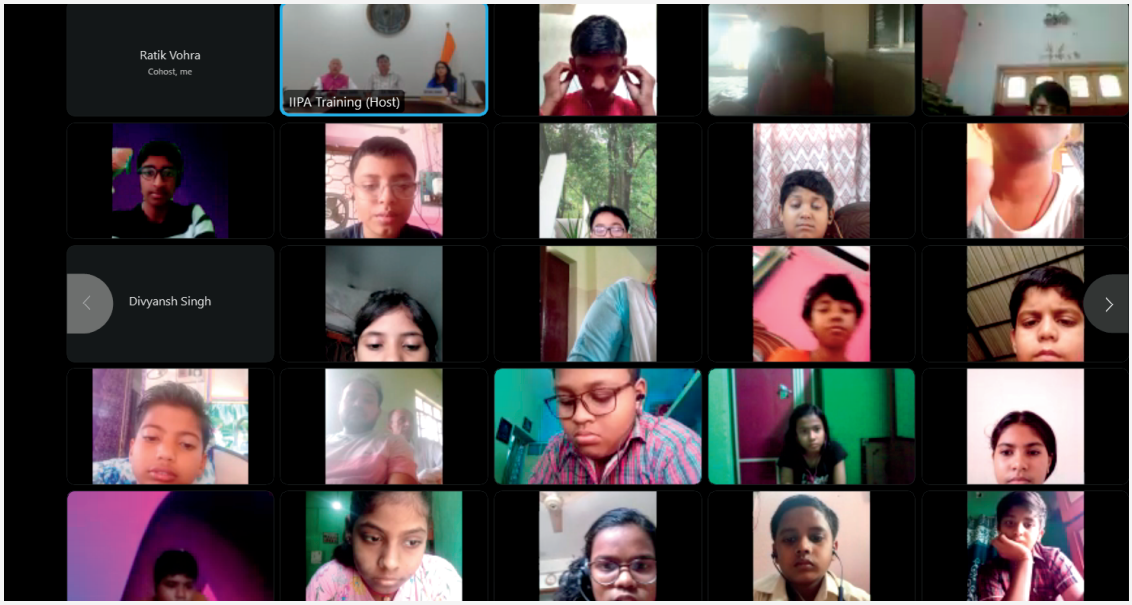


Image 02: School students' during blended capacity building programme

1.2 WHAT IS BLENDED LEARNING?

Blended Learning integrates the finest features of two different types of training environments; traditional face-to-face classroom instruction and high-tech e-Learning. By covering both bases, all sorts of learners can be engaged i.e., those who thrive in a structured environment with face-to-face interaction with an instructor and others who thrive in a semi-autonomous, computer-based learning environment.

While the classroom enables role-playing with immediate face-to-face feedback, online learning enables personalized, self-paced learning using e-learning components that lend themselves to interactive media such as skill-building, games, videos, tutorials, quizzes, and social media components, all of which are accessible from the learner's home page in the Learning Management System (LMS).

1.3 WHY BLENDED LEARNING?

The perfect blended learning program includes web-based training for optimizing the achievement of learning objectives with the application of Learning Management System (LMS). The three-year long process is aimed at providing a Holistic approach on Ganga and its activities conducted under *Namami Gange* for making the river *Aviral* and *Nirmal*. The project provides an online platform to connect with masses achieving the two main pillars of *Jan Ganga* and *Gyan Ganga*. Participants can now learn and retain content through the new approach of Blended Learning with IIPA's LMS platform.

Image 03: Master trainers during blended capacity building programme

R-20 Workshop, IIPA

1.4 Project at a Glance

The broad objectives of project were defined stepwise integrating identification of key stakeholders of Ganga River Basin. Further, preparation of tailor-made modules for each stakeholder separately in accordance with their role in Clean Ganga Mission. The final step is to disseminate the collected knowledge through blended learning programmes. The learning programmes are customized for different stakeholders with plethora of examples from their niche habitats to make it more understandable.

OBJECTIVES

1. **Identification of Stakeholders**
2. **Preparation of tailor-made modules**
3. **Conduct blended learning programme**

1.5

Project Deliverables

YEAR 1

- Module preparation for stakeholders
- Developing online webpage
- **25** Capacity Building Programmes
- Workshop for spiritual leaders
- Annual report

YEAR 2

- **22** Capacity Building Programmes
- Workshop for spiritual leaders
- Annual report

YEAR 3

- **20** Capacity Building Programmes
- Workshop for spiritual leaders
- Online web portal
- Annual Report

1.6 Annual Highlights
JUN 2022- JUL 2023

School Student Trainings

7

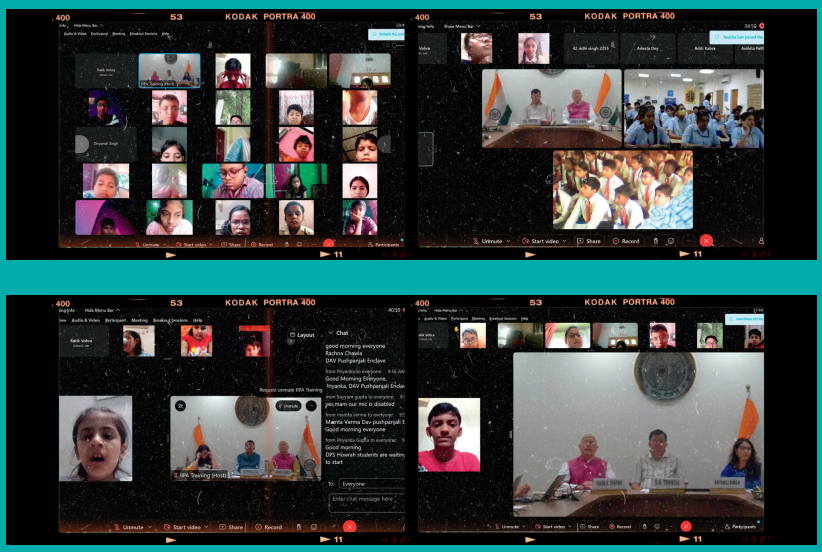
NO. OF CAPACITY BUILDING PROGRAMMES

4,657

NO. OF PARTICIPANTS

Blended

MODE



Training of Master Trainers

7

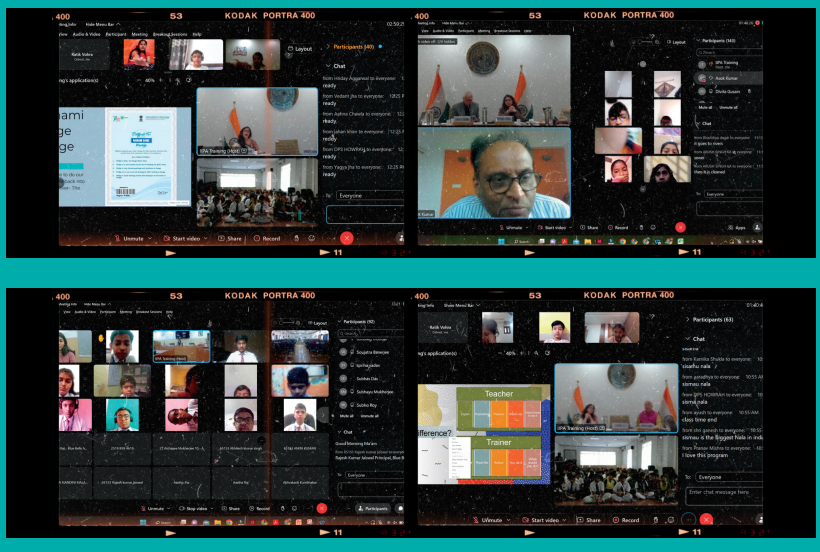
NO. OF CAPACITY BUILDING PROGRAMMES

319

NO. OF PARTICIPANTS

Blended

MODE



Annual Highlights JUN 2022- JUL 2023

College Student Trainings

3

NO. OF CAPACITY BUILDING PROGRAMMES

735

NO. OF PARTICIPANTS

Blended

MODE

Spiritual/Mass Community Programme

3

NO. OF CAPACITY BUILDING PROGRAMMES

600+

NO. OF PARTICIPANTS

Offline

MODE

Annual Highlights JUN 2022- JUL 2023

Ganga Pariprekshya

10

NO. OF CAPACITY BUILDING PROGRAMMES

1775

NO. OF PARTICIPANTS

Blended

MODE

River - 20 Conference

1

NO. OF CAPACITY BUILDING PROGRAMME

361

NO. OF PARTICIPANTS

Offline

MODE

Summary of Activities

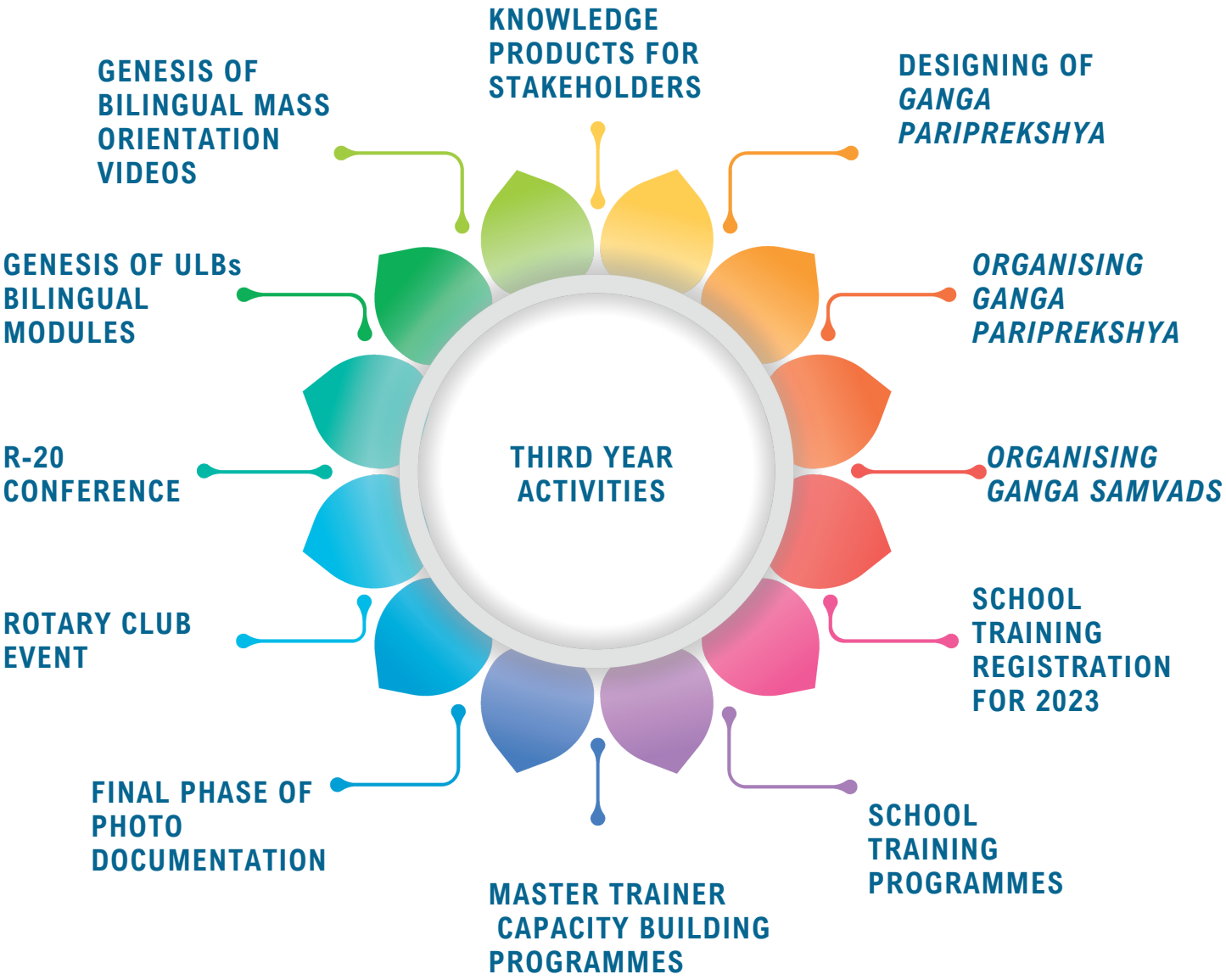


Figure 01: Summary of activities of third year of the programme

Timeline of project deliverables: Jul 2022 - Jun 2023

LAUNCH OF *GANGA PARIPREKSHYA*
29TH JULY 2022

GANGA PARIPREKSHYA
AUGUST 2022

GANGA JAN BHAGIDARI CONCLAVE
17TH SEPTEMBER 2022

THIRD ***GANGA SAMVAD***
NOVEMBER 2022

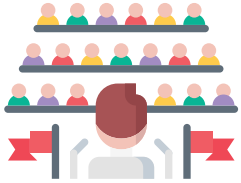
TRAINING OF MASTER TRAINER
OCTOBER 2022 -MAY 2022

SCHOOL STUDENT TRAINING
OCTOBER 2022 -MAY 2023

FOURTH ***GANGA SAMVAD***
DECEMBER 2022

CALENDAR 2023 LAUNCH
27TH JANUARY 2023

FIFTH ***GANGA SAMVAD*** ROTARY CLUB EVENT
FEBRUARY 2023



R-20 CONFERENCE
11TH APRIL 2023

PHOTO & VIDEO DOCUMENTATION
JULY 2022 - JUNE 2023

SIXTH ***GANGA SAMVAD***
22ND MARCH 2023

Figure 02: Detailed timeline of project deliverables Jul 2022- Jun2023

CHAPTER 2

Devprayag, Uttarakhand

Methodology Adopted

2.1 PEDAGOGY

The year 2022-2023 marked the successful completion of third year of "Blended Capacity Building Programme for Stakeholders of River Ganga". The year 2022-2023 was devoted to continuation of previous two years of work and engaging more and more stakeholders. Certain stakeholders like government officials and other state officials attended the Capacity Building Programme scheduled at IIPA in-house or on-site (face-to-face programmes). To reach the maximum length and the breadth of River *Ganga* Basin, virtual internet programmes with certain identified catalyst institutions have proved to be efficient with school students, colleges' students, faculty, researchers or other academia. Certain small orientation courses have also been developed for continuous learning, knowledge sharing and self-evaluation for masses who are associated with river Ganga in one or other way. Focused group discussions were used to engage participants and the immersive learning experience through walk-in photo exhibitions and other knowledge products were exciting way of learning new things thoroughly in a quick pace. The Success Stories from the NMCG project and certain best practices were shared and discussed to create awareness of the programme. Some success stories were obtained from various other *Ganga* stakeholders.

2.2 Meetings and Discussions

On 13th July 2022, Shri S. N. Tripathi, DG, IIPA and Dr. Shyamli Singh, Faculty, IIPA participated in a consultative interaction coordinated by GIZ with central government stakeholders including CWC, CGWB, CPCB, NITI Aayog to come up with a draft organogram for NMCG.

Image 04: Shri S. N. Tripathi, DG, IIPA addressing in a consultative interaction coordinated by GIZ

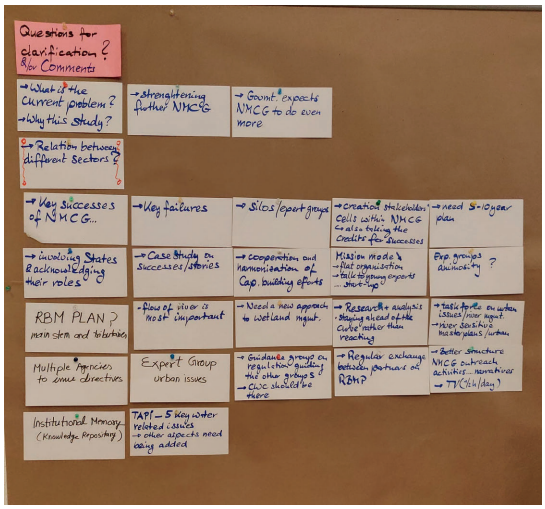


Image 05: Working ideas for draft organogram

Image 06: Shri S. N. Tripathi, DG, IIPA and Dr. Shyamli Singh, Faculty, IIPA with other members of consultative interaction coordinated by GIZ

Image 07: Shri S.N. Tripathi DG, IIPA and Dr. Shyamli Singh, Faculty with GIZ Delegates for a possible collaboration on the project Support to Ganga Rejuvenation Phase III"

Image 08: IIPA in talks with GIZ Delegates for a possible collaboration on the project Support to Ganga Rejuvenation Phase III"

Image 09: Prof. Vinod K. Sharma, Faculty greeting Hon'ble MoS (PP) Dr. Jitendra Singh, Chairman with Shri S.N. Tripathi, DG, IIPA Shri Amitabh Ranjan, Registrar and Dr. Shyamli Singh, Faculty during inauguration of 'Ganga Paripreksha'

Image 10: Prof. Vinod K. Sharma with other participant and NMCG officials attending Yamuna Par Azadi ke Amrut with other participants of the event at Zero Pushta, Sonia Vihar, Delhi on 16th August 2022

Image 11: IIPA team inspecting site before Ganga Samvad at Delhi University

Image 12: IIPA team in discussion with Biswajit Roy Chowdhury , Chairperson , SAIARD

Image 13: IIPA team greeting new appointed IPCW principal, Prof. Poonam Kumria and held discussion on having Ganga Samvad in their Campus

CHAPTER 3

Ganga Sagar windmill, WB

Knowledge Products for Stakeholders

The modules serve as an introduction to the *Namami Gange* approach and its application to capacity development. It illustrates the River Basin Management Approach in a straightforward, coherent, and accessible manner for the benefit of development practitioners both within and outside the system. The modules give a practical guidance to real-world based examples and knowledge that can be used to build and contribute to national capacity development. It focuses on smart institutions, visionary leadership, access to knowledge, and public accountability mechanisms as capacity change drivers, drawing on data and strategies throughout the basin and combining country-led experiences and institutional lessons. The primers provide access to various resources, but do not profess to encompass all information, perspectives, and practices in this vast field of *Ganga* Rejuvenation. Further, modules or aspects of interaction have been tailor-made to the relevant stakeholder. However, we believe it serves as a convincing and intriguing introduction to areas of work and practice that is critical to achieving long-term human development achievements.

Image 14: Cover Pages of four parts of The Ganges Children Handbook

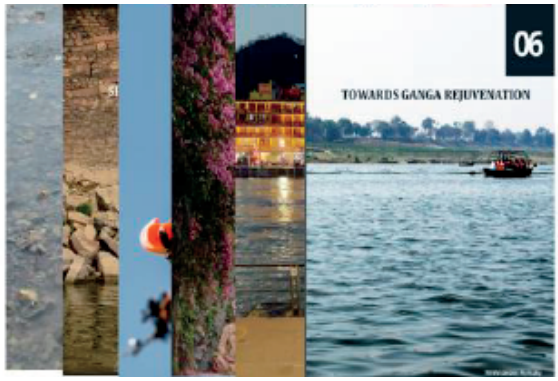


Image 15: Cover Pages of six parts of Colleges Students Handbook

3.1 Bilingual Knowledge Products for School and College Students

The handbook encompasses a holistic view of the River Ganga and its various aspects, the 'Ganges - Children Handbook' consists of four sub-modules for the ease of understanding as well as delivering the sessions. The first sub-module's theme is about the identity of the river that describes the journey of *Ganga* from *Gangotri* to *Ganga Sagar,* its historical mentions, glorious legends attached to River *Ganga,* touches on cultural and economic significance of the national river, and covers the landmark, cities, world heritage sites and ghats. At the end, children get engage in activities related to factual portions covered. The second sub-module explains the faith related to the intangible form of revering *Ganga* describing traditions, cultural practices, religious and pilgrimage sites, stories about social practices, the sixteen samskaras and festivals celebrated on the banks of river *Ganga*. After the session students-trainers engage in a storytelling session about their experiences with the river Ganges.

Figure 03: Interactive outlook of School Module

The third sub module describes *Ganga* ecosystem's where forests, wetlands, aquatic life, flora, and fauna are covered. Protected areas like biospheres reserves, national parks, Wildlife sanctuaries, Tigers reserves, RAMSAR sites and other natural and sub-natural habitats for biodiversity are discussed. After the module, there are two important activities for students to interact regarding identification of flora and fauna of the river. The fourth sub module about *Ganga* Rejuvenation discusses the timeline of various efforts by the government, shift towards Basin Based Approach, inception of NMCG, Missions of NMCG and some initiatives under the *Namami Gange* Programme. The module ends with discussion on the role of children in conservation and rejuvenation activities of the National River-*Ganga.* After the going through the handbook students would be able to explore various aspects, facts, and diversity about *Ganga*, discover River *Ganga* through dialogues, bring forward new ideas and innovation, keep the *Ganga* and other water resources in their surroundings clean and become green ambassadors as a skilled workforce for the nation development by carrying forward knowledge with new seed of knowledge implanted in them.

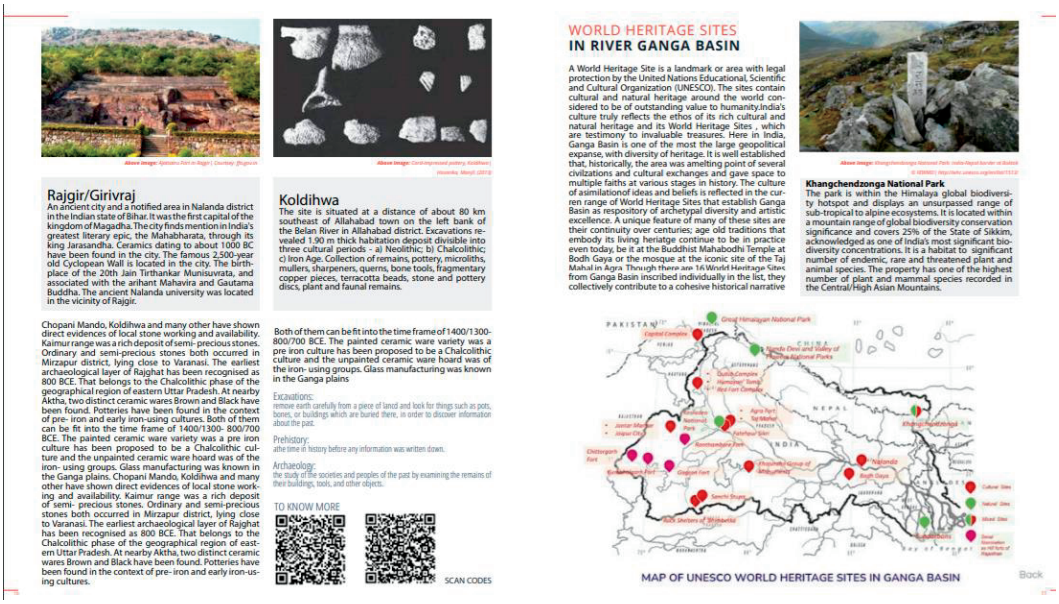


Figure 04: Snippets from modules showing interactive sessions

Technical briefs on major aspects of river *Ganga* are designed for the college students with many branches of information into a condensed form for better understanding of varied subjects. All of them were designed on a singular same format and features for quick access of data to refer to. Detailed research was conducted to prepare and design the six advanced study modules. Some of features include maps, infographics, terminology explanations, factual notes, quotations, case examples, on-site observations, present condition photographs, detailed cross referencing of data, recall exercise and scan codes for additions readings on most of the topics discussed. The first module briefs about journey of *Ganga,* network of its tributaries and distributaries, Ganga River Basin, the scientific phenomena of the origin of *Ganga* and features of *Ganga.*

The first module briefs about journey of *Ganga,* network of its tributaries and distributaries, Ganga River Basin, the scientific phenomena of the origin of *Ganga* and features of *Ganga.* River system like hydrology, geology, wetlands, and lifeforms. The second module discusses about significant spaces and places of *Ganga*, prehistoric sites along the riverbank, UNESCO recognized World Heritage sites, intangible cultural heritage of humanity in River *Ganga* Basin and the Ghats along the river *Ganga*. In the third brief on life lifeforms on river *Ganga* describes about important ecological habitats of *Ganga* River Basin, the lifeforms in them and leading threats, diversity forests that co-exist in *Ganga* River Basin, the sixteen important wetlands, several ecologically sites that are protected by laws which have many endemic and threatened species, ecosystem roles of biodiversity along the ganga, factors disturbing the ecological integrity and some exciting case studies, stories and facts. The fourth module on ecological and economic aspects covers ecosystem services, economics, grossly polluting industries like tanneries, paper pulps, sugar mills, textile bleaching and dyeing. The choking condition of river as a result of improper sewage disposal, mass rituals activities, hydro projects, disposal of excess plastic and excess water abstraction along the banks of *Ganga*. The fifth module briefs on faith in *Ganga* describes *Ganga* as holy river, religious places of significance in the *Ganga* basin, manifestation of faith in festivals and events, depiction ancient art/ iconography- association of animals with God and Goddess along Ganga, Significance of *Ganga* River, need for sustainable religious practice with case examples, other faiths and *Ganga's* identity in different countries across Indian sub-continent. The sixth module on ganga's rejuvenation discusses rejuvenation of River Ganga, Ganga Action Plan (GAP), National River Conservation Plan (NRCP), National Ganga River Basin Authority (NGRBA),Basin-Based Approach, visions and missions of National Mission for Clean Ganga (NMCG) and thrust areas of *Namami Gange* Programme, Projects under *Namami Gange* Mission covers short term, medium term and long-term activities and the progress so far.

Image 16: Children handbook and college modules launched at "Ganga Utsav 2021". In frame Prof. V. K. Sharma, faculty, IIPA, Shri Rajiv Ranjan Mishra, DG, NMCG, Shri Prasoon Joshi, Chairperson, CBFC, Shri Kiren Rijiju, Minister Law and Justice and Shri Pankaj Kumar, Secretary, MoJS

3.2 Bilingual Handbook for Urban Local Body Officers

The project 'Blended capacity building for the stakeholders of the river Ganga under *Namami Gange'* by the Indian Institute of Public Administration, New Delhi, has designed modules as a strategic step toward enhancing the ability of urban managers in cities. The building blocks encompass a holistic view of the river *Ganga* and its various aspects of importance to Urban Local Bodies, the (building block for ULBs series) consists of eight modules for the ease of understanding as well as delivering the sessions.

Image 17: Glimpses of cover pages of ULB Training Modules

The first module's theme speaks of the Circular City, which brings to reality the simplicity of living close to nature while having easy access to knowledge and modern technology. Circular is associated with economics, resource management, governance, and aesthetic design. This module seeks to identify a list of city assets and products that would widen the circularity notion beyond the economy to cover other areas of Urban Local Bodies based management as well. The second module is about agriculture, which is one of the most important elements of the Indian economy as more than 75% of the workforce earns their livelihood through agriculture. It becomes imperative to formulate a visionary agriculture management policy that is sustainable. This module attempts to guide the local authorities in the state to implement sustainable agriculture practices which are compliant with the regulatory framework of India. The third module is on Building Resilience and Climate Smart Urban Planning that enhances the reliability of a city's performance over time, making it better able to endure shocks. This module talks about gaps, needs, and a framework for introducing perspectives for urban local body officers. As the frequency and severity of disasters caused by climate-related events have been increasing all over the world. Because of its distinct geo-climatic and socio-economic characteristics, India is also prone to a wide range of natural and man-made disasters to varied degrees. When a district is devastated by floods, droughts, landslides, earthquakes, cyclones, and other natural disasters, officials and planners need the correct information, resources, and tools to mitigate the damage. Only preparedness initiatives may provide such information/tools. Officials from urban local governments

must also integrate climate resilient strategies into a variety of ongoing development projects. Further to bring a change in the city's development dynamics for resilient urban cities. The fourth module on solid waste management which discusses the challenges faced by ULBs in collecting and treating solid waste, as well as the overall management of waste as a resource, including recycling, environmental issues, disposal, and other elements of municipal garbage, with a focus on the *Ganga* basin states. It examines India's situation by laying out measures taken and implemented by local governments, as well as drawing on examples of best practices from around the world to establish long-term waste management solutions. The fifth module on Riverfront Development talks about rivers, its importance, role of urban rivers, riverfront of present times, evolution of waterfront development, river sensitive urban planning, monitoring evaluation, Operation maintenance framework, successful case studies on the riverfront development. Sixth module is on Forest Management. Forest management is the planning and implementation of practices for the stewardship and use of forests and other wooded land with specific environmental, economic, social, and cultural goals in mind. It introduces the perspectives of urban local body officers towards trends and challenges, policies, and a framework of sustainable Forest Management in the river Ganga basin state for long-term services sustenance.

Image 18 : Glimpses of ULB Hindi Training Modules on Urban Wetland

The Seventh module is about Urban Wetlands. Wetlands contribute to the livability of urban areas by mitigating flood damage, reducing the urban heat island effect, filtration of stormwater, recharging groundwater, cleaning the air, and providing needed green space for humans and nature alike in areas frequently influenced by development and impervious surfaces. The module describes Role of Urban Local Bodies, Critical path approach, planning, institutional framework, assessment, conservation and management plan, challenges and government initiatives. Eighth module is on Urban Water Management, the module discusses the challenges faced by ULBs as well as the overall management of urban water with a focus on the Ganga basin states. It examines India's situation by laying out measures taken and implemented by local governments, as well as drawing on examples of best practices from around the world to establish long-term solutions. The bilingual ULB Handbooks were published with ISBN 978-81-955533-0-3

3.3 Photo and Video Documentation of River Ganga

Image 19: Still of Gomukh, Gangotri

The photo documentation aimed at the major themes of river *Ganga* i.e., Places along Banks of *Ganga*, *Ganga* and Nature connect, Humans of *Ganga*, Traditional art and craft and Rites & rituals along *Ganga*.The photography and videography documenting team has been gathering photos and stories. For the photos, they have been collecting a variety of shot types – e.g., extreme close-ups, close-ups, mid shot, long shot, staged shots, and action shots. In addition to a variety of shot types, it was be important to gather photos that showcase people , process/es, technological innovation, working experience with government stakeholders, local communities.

In following five phase River *Ganga* Basin was covered;
PHASE 1: Varanasi (Varanasi Ghat, Sarnath, BHU, Benarasi Saree Industry), Mirzapur(Mirzapur Ghats, Clock Tower, Carpet Industry, Brass Industry), Chunar & Allahabad(City, Kumbh Mela Prangan, Museum, Historical Places, STPs, Rose Farmers)
PHASE 2: Mathura (Meja Sanctuary), Vrindavan, Agra, Rishikesh & Haridwar
PHASE 3: *Ganga sagar* & Kolkata (Chandannagar Stand, Bandel Church, Immambara, Hangseshwari Temple,Kumortuli, Durga Puja)
PHASE 4: Patna (Chhat Puja, Traditional Art forms of Patna), Gaya & Bodh Gaya(Various temples of Bodh Gaya, Nalanda University, Rajgir)
PHASE 5: Uttarakhand (Valley of Flowers), *Gangotri*

The team has been working on developing a package of photographs and video clips to illustrate the varied aspects of Ganga. During field visits over 1500 important shots and many video bytes have been captured highlighting significance of River *Ganga*.

Image 20: A still from Valley of Flower

Image 21: Walk in Photo-exhibition of Ganga Pariprekshya. In frame, Shri S. N. Tripathi, DG, IIPA, Shri Amitabh Ranjan, Registrar, IIPA, Shri G. Asok Kumar, DG NMCG, Ms Rakhi Bakshi and Dr. Shyamli Singh, Faculty IIPA

3.4 Orientation Course

The orientation course has been key strategy for capacity-building that aims to reduce reliance on outside specialists as sources of information, resources, and solutions to community problems. Capacity building encourages stakeholders to understand and act on key issues by preventing a dependency connection with outsiders from growing. The course will help develops a sense of ownership and empowerment among community partners, allowing them to take more control over their own development.

Objective of the orientation course is to develop a cohort of local youth who are trained and motivated to participate in project activities, to raise awareness and educate target audiences about the hazards and implications of a polluted *Ganga,* to sensitize and gather support from people from all walks of life for the mitigation of pollution towards conservation of the *Ganga* and its tributaries and provide information on existing government programmes for clean *Ganga.*

The IIPA developed 10 Modules of 30 minute each on *Ganga* and its sub-themes in both hindi and english. The themes for the courses are:

S.no	English Videos	Hindi Videos
1	Birth of River Ganga	गंगा नदी का जन्म
2	Evolution and Physical Features of Ganga	गंगा का विकास और भौतिक विशेषताएँ
3	Ecological Diversity of Ganga	गंगा की पारिस्थितिक विविधता
4	Faith in Ganga	गंगा पर आस्था
5	River Ganga and Human Interventions	गंगा नदी और मानवीय हस्तक्षेप
6	The Economy's Dependence on River Ganga	गंगा नदी पर अर्थव्यवस्था की निर्भरता
7	Management of Urban River Stretches	शहरी नदी के विस्तार का प्रबंधन
8	Save Ganga Get Involved	गंगा बचाओ। हाथ बढ़ाओ।
9	Government's Support & Legal Infrastructure	सरकारी सहयोग और कानूनी संरचना
10	Sailing Down the Ganges	गंगा के साथ बहते हुए

Figure 05: Themes of orientation videos

3.5 Table and Wall Calendars 2023

IIPA designed and printed the "**Save *Ganga***" theme annual calendar for the year 2023. The calendar artwork has pictures by photo documentation team and school students posters to recognise their creativity and efforts. The calendar was launched by Union Minister Shri Jitendra Singh, Chairman IIPA, Sh. S.N Tripathi, DG IIPA and Central Administrative Tribunal, Justice Ranjit Vasantrao More, Smt. Rashmi Chowdhary, Additional Secretary, DoPT several other senior officials were present, with project investigator Dr. Shyamli Singh.

Image 22: 2023 NMCG Calendar launch on 27th January 2023 by Hon'ble minster Shri Jitendra Singh, Chairman IIPA, Sh. S.N Tripathi, DG IIPA and Central Administrative Tribunal, Justice Ranjit Vasantrao More, Smt. Rashmi Chowdhary, Additional Secretary and Dr. Shyamli Singh, Faculty, IIPA

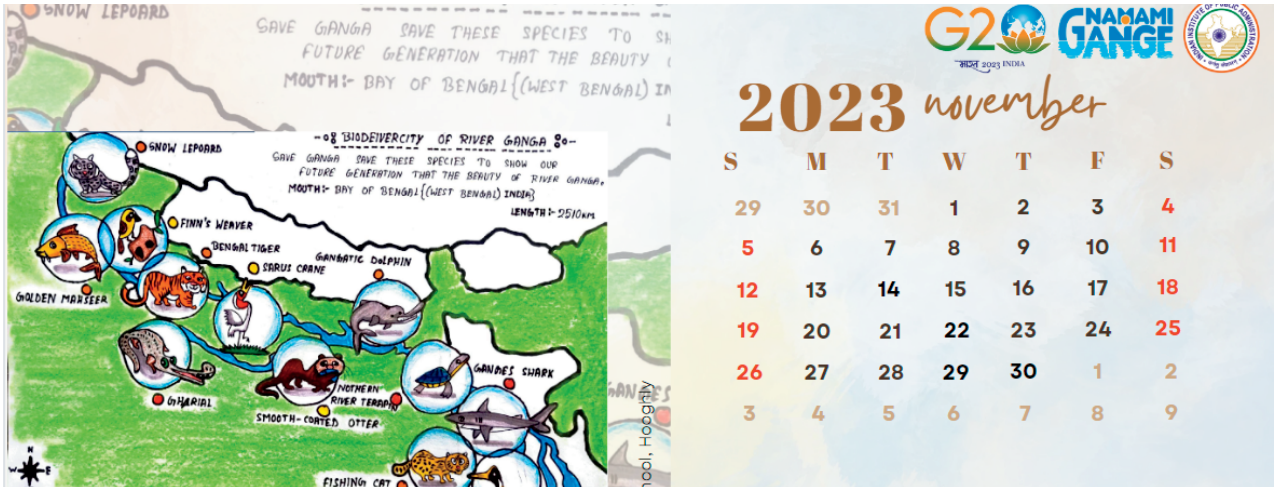


Image 23: Glimpse of November month table calendar of 2023 along with poster by student highlighting biodiversity of Ganga

The calendar highlighted that *Namami Gange* has been awarded United Nations World Restoration Flagship. The *Namami Gange* project of India has been recognised as one of the 10 pioneering efforts to revive the natural world. Awarded United Nations World Restoration Flagship, National Mission for Clean Ganga has rejuvenated 1,500 km of the 2,525 km river stretch and 30,000 ha of forests.

Image 24: Glimpses of a wall calendar of 2023

Image 25: Glimpse of January month table calendar of 2023 along with poster by student highlighting 'Save Ganga Water'

3.6 Publications

IIPA did many publications related to the project. Details of these publication are mentions as follows;

1. Climate School: A Capacity Building Strategy
Author: Dr.Shyamli Singh
Conference: ICON-BITS 2023, International Conference on Best Innovative Teaching Strategies (9th-11th February, 2023)

2. Sectoral Approach for Climate Change
Author: Dr. Shyamli Singh and Prof. Vinod K. Sharma
Book Publisher: M/s Bluerose Publishers

3. Building Climate Resilience in Urban Planning
Authors: Dr. Shyamli Singh and Ms. Anugya Singh
Conference: National Convention on People Centric Urban Governance in India, organized by Indian Institute of Public Administration (6th-7th December, 2022)

4. Sectoral Approach for Solid Waste Management and Water Management
Authors: Dr. Shyamli Singh and Ms.Anugya Singh
Conference: National Conference on Natural Sciences and Sustainable Development for Environment: Contestations and Affirmations (NSSECA- 20th – 21st January, 2023)

5. Climate Governance in India: A Sectoral Approach
Authors: Dr. Shyamli Singh, Ms. Anugya Singh
Conference: ICUE 2022: Energy, Environment and Climate Change (26-28 October, 2022)

6. India and Arctic Region: Impact of Climate Change
Authors: Dr. Shyamli Singh, Commodore Saurabh Rastogi and Ms. Anugya Singh
Journal: Environment, Development and Sustainability

7. Impact of Climate Change on Livelihood: Ganga Basin
Authors: Dr. Shyamli Singh and Ms.Anugya Singh

8. Challenges and opportunities for India in Arctic Ocean region
Authors: Dr. Shyamli Singh, Commodore Saurabh Rastogi and Ms. Anugya Singh
Journal: Indian Journal of Public Administration (IJPA)

9. Urban Challenges from the Lens of Climate Change
Authors: Dr. Shyamli Singh and Ms. Anugya Singh
Seminar: Creating Inclusive and Sustainable Urban Spaces: Urbanisation and Urban Planning in India with Special Reference to Kashmir (13th-14th March, 2023), University of Kashmir

10. Green Initiatives and Aatmanirbhar Bharat – Book Chapter
Authors: Dr. Shyamli Singh and Ms. Anugya Singh
Book: Perspectives on Aatmanirbhar Bharat

11. Perspectives on Aatmanirbhar Bharat – Book
Editors: Prof. Suresh Misra, Dr. Shyamli Singh and Dr. Pawan Kumar Taneja

12. Pandemic Disease & Spread and Pandemic Preparedness
Contributed by: Dr. Shyamli Singh

13. Urbanization and Revamping of Wetlands
Authors: Dr. Shyamli Singh and Ms. Monika Saini
Publication: IIPA Digest (October – December, 2022)

14. Plastic Waste: Burden for Aquatic Ecosystem (Under Pipeline)
Authors: Dr. Shyamli Singh and Ms. Monika Saini
Publication: IIPA Digest (January, 2023)

15. Saving Holiest River using Capacity Building as a Tool
Authors: Dr. Shyamli Singh and Monika Saini
Publication: IIPA Digest (May, 2023)

The abstracts of all publications have been attached as Annexure I

CHAPTER 4

Rudraprayag sangam, UK

CAPACITY BUILDING PROGRAMMES

The modules serve as an introduction to the *Namami Gange* approach and its application to capacity development. It illustrates the River Basin Management Approach in a straightforward, coherent, and accessible manner for the benefit of development practitioners both within and outside the system. The modules give a practical guidance to real-world based examples and knowledge that can be used to build and contribute to national capacity development. It focuses on smart institutions, visionary leadership, access to knowledge, and public accountability mechanisms as capacity change drivers, drawing on data and strategies throughout the basin and combining country-led experiences and institutional lessons. The primers provide access to various resources, but do not profess to encompass all information, perspectives, and practices in this vast field of *Ganga* Rejuvenation. Further, modules or aspects of interaction have been tailor-made to the relevant stakeholder. However, we believe it serves as a convincing and intriguing introduction to areas of work and practice that is critical to achieving long-term human development achievements.

4.1 Capacity Building Programmes: School Students

Students are one of the most significant stakeholders. Retaining that in mind, Indian Institute of Public Administration (IIPA) conducted capacity building programme for school students from various schools across India in a hybrid mode.

The training programme started with the welcome note by Dr. Shyamli Singh, Faculty, IIPA; all school principals, nodal teachers and students were greeted warmly. Consecutively, Prof. Vinod K. Sharma, Faculty, IIPA; gave presentation on “Objectives and Expectations” about the project. After that, initial Remarks were delivered by Shri S.N. Tripathi, DG, IIPA and Inaugural Address by Shri G. Asok Kumar, DG, NMCG. Following that, presentation on “Project Overview” was given by Dr. Shyamli Singh, Faculty, IIPA. After that, Ganga Anthem was played. In another presentation, Dr. Shyamli Singh, Faculty, IIPA talked about “Key aspects of River *Ganga*”.

Session on Learning Management System (LMS) was taken by IIPA team. Learning Management System (LMS) in e-Governance is a pioneering project under the Government of India's Digital India Programme, which was launched in 2015 with the goal of converting India into a digitally empowered society and knowledge economy by leveraging IT as a growth engine. A Learning Management System (LMS) is a software application used to manage, document, track, report on, and deliver electronic courses and training programmes. After that, video on “Birth of River *Ganga*” was played for the students. For each training programme poster making competition was organized on theme titled, “Biodiversity of *Ganga*”. It had three winners and prize money of INR 750 (1st prize), INR 500 (2nd prize) and INR 250 (3rd prize), the results for the same were announced on the third day of the training programme.

Image 26: Shri Surendra Nath Tripathi, DG, IIPA, Prof. Vinod K. Sharma, Faculty IIPA, Dr. Shyamli Singh, Faculty IIPA during the school training

Second day began with a welcome message and brief introduction of the reflection of the previous day by Dr. Shyamli Singh, Faculty, IIPA. The training programme continued with a session on “Orientation to Rivers” by IIPA team. Following that, Chacha Chaudhary Teaser was played for the students. *Chacha* Chaudhary is an Indian comic book character, created by cartoonist Pran Kumar Sharma, the comic comes in ten Indian languages including Hindi and English. Then students were shown *Ganga Darshan* - Virtual Art Gallery. Consecutively, a session on Module, “Introduction to River *Ganga*” was taken by IIPA team. Second day also comprised of certain games which are especially designed for students by IIPA team such as “Activity fillers”. The next session comprised of a video on “Faith in River *Ganga*”. Second module for the day was on “Cultural & Spiritual Significance”, finally *Kartavya* song was played and the day was concluded.

Finally, concluding day began with a welcome message and brief introduction of the reflection of the previous by Dr. Shyamli Singh, Faculty, IIPA. Training programme continued for the third day with a module session on “*Ganga’s* Ecosystem” by IIPA team. Third day comprised of interesting games which are made for students such as, “Word Hunt: Ganga Fauna”, “Activity: Identify Species” which were coordinated by IIPA team. Next module session on “Ganga’s Rejuvenation” was taken by IIPA team. In next segment there was another game titled “Ganga Game show”. Consecutively, session on “Building Motivation” was taken by IIPA team. Following that, winners of poster making competition were announced by Shri S.N. Tripathi, DG, IIPA. There was also an engaging session where in the participating schools principal and nodal teachers (Master Trainers) interacted with Prof. Vinod K. Sharma, Faculty, IIPA and Dr. Shyamli Singh, Faculty, IIPA. Then finally, the three day training programme was concluded with Vote of Thanks.

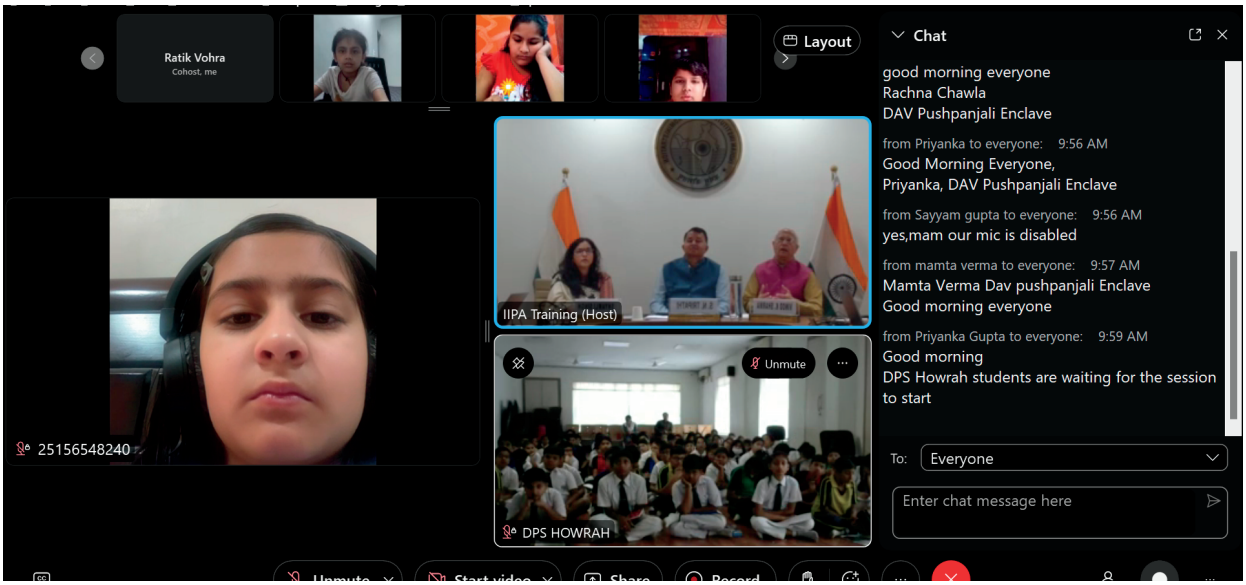


Image 27: Students attending the school training

Image 28: Shri Surendra Nath Tripathi, DG, IIPA, Prof. Vinod K. Sharma and IIPA team facilitating the training session

Image 29: Prof. Vinod K. Sharma, Faculty IIPA addressing the students; Also in frame : Dr. Shyamli Singh, Faculty IIPA

School Students Training Details

16th - 18th May, 2023
1. Buddha World School, Bihar
2. DAV Model School, West Bengal

Participants - 294

17th - 19th April, 2023
1. Blue Bells Academy, Patna
2. Burnpur Riverside School, West Bengal
3. New Sainik Public School, New Delhi

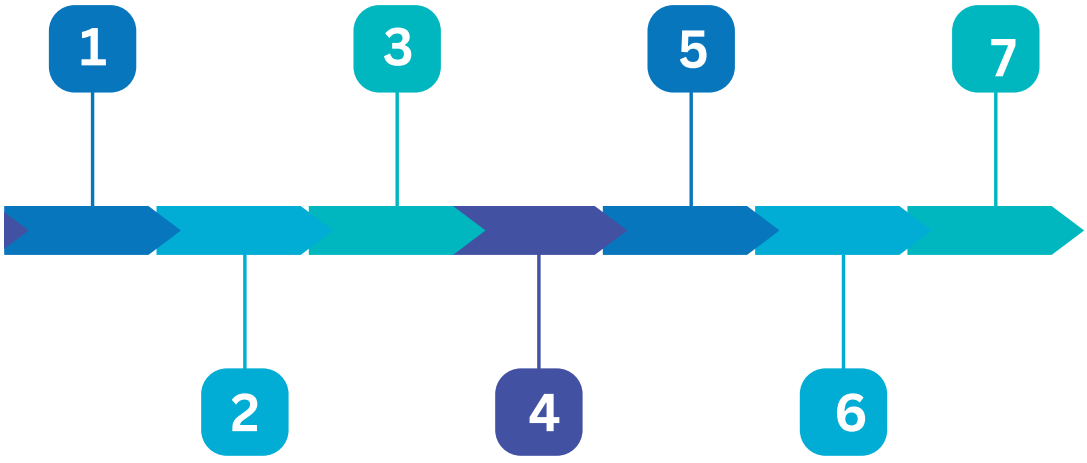
Participants - 984

4th - 6th January, 2023
1.Red Roses Public School, Delhi
2.Explore International School, West Bengal
3.The Sovereign School, Delhi

Participants - 739

10th - 12th October, 2022
1. Mount Columbus School, Delhi
2. Seven Stars Academy, Ranchi
3. Cambrian Public School, Ranchi

Participants -428



25th - 27th April, 2023
1. Army Public School, Noida
2. Navrachna Public School, Roorkee
3. Navy Children School, Chanakyapuri

Participants - 1025

28th - 30th March, 2023
1. Central Academy, Lucknow
2. D.A.V. Public School, Pushpanjali Enclave, New Delhi
3. Delhi Public School, Howrah

Participants - 830

19th - 21st October, 2022
1. M.M Public School, Delhi
2. The Iconic School, Bhopal

Participants - 357

Figure 06: Schools training details

4.2 Master Trainer Capacity Building Programmes

IIPA continued the training of master trainers in third year. On the inaugural day of phase 2 Project Investigators Prof. Vinod Kumar Sharma and Dr. Shyamli Singh, welcomed the participants and gave an overview of the project. Shri G. Asok Kumar, (IAS) DG, NMCG, honored the participants virtually with his presence for the inauguration of the programme. On the first day, participants were familiarized with the functioning of IIPA and NMCG. DG, NMCG reflected on the need of the programme by making the trainers aware of how the river doesn't need a lot of management, it is we who need management in our own behavior. "The best and the easiest way for River conservation is to become efficient in the way we use water", he said. About a total of 320 (approx.) master trainers were given the responsibility. What made the entire endeavor worthwhile were the words of encouragement that the participants left us with. (Annexure II)

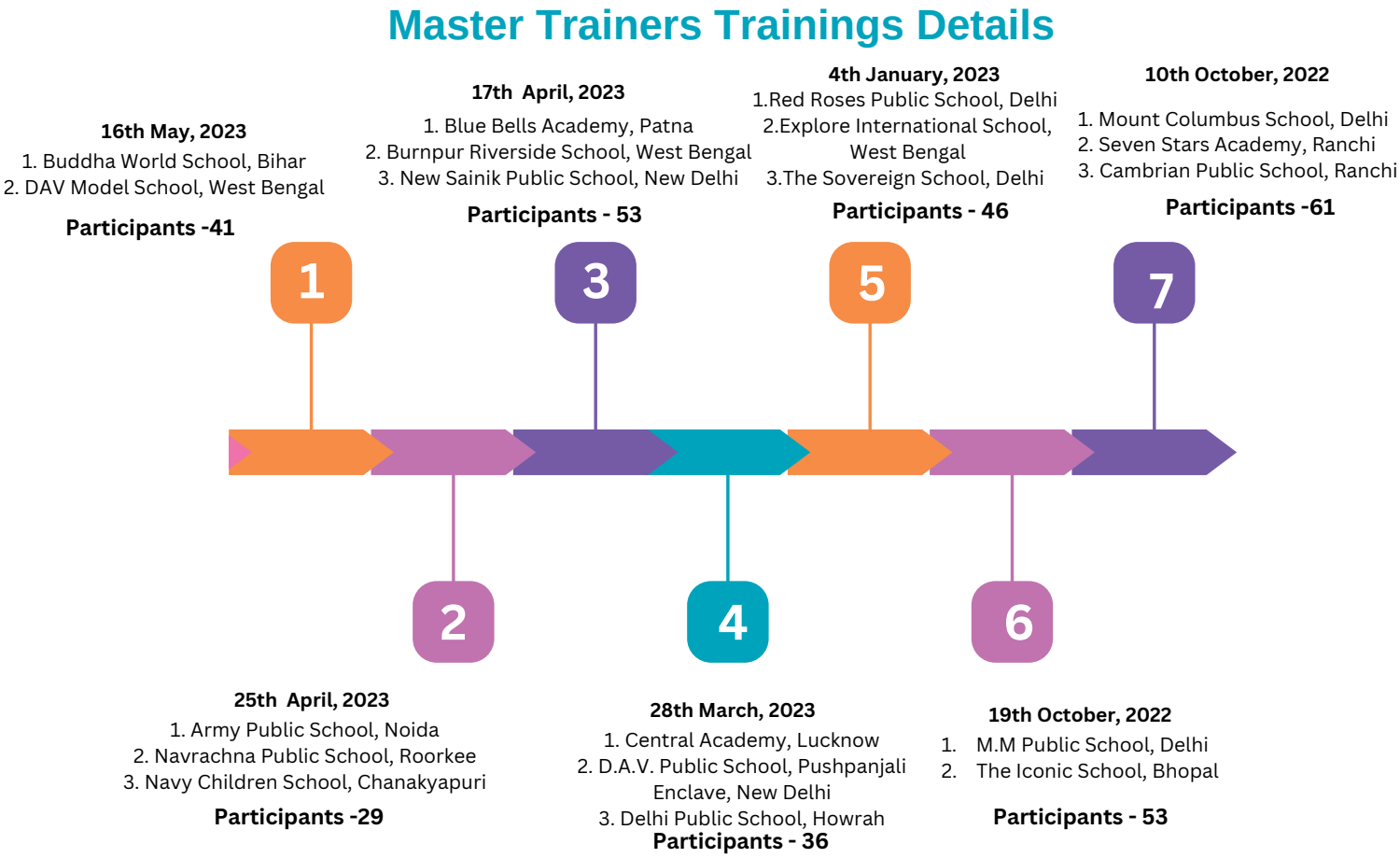


Figure 07: Master trainers training details

4.3 College Students Capacity Building Programmes

Third Colloquy: ***Ganga Samvad***

Indian Institute of Public Management (IIPA) in collaboration of Geography Department, Miranda House, University of Delhi jointly organized an immensely invigorating and enriching third Colloquy: *Ganga Samvad*' through 'Blended Capacity Building Programme for stakeholders of River *Ganga'* on 29th-30th November 2022. 450 students and 30+ institutes participated in the programme.

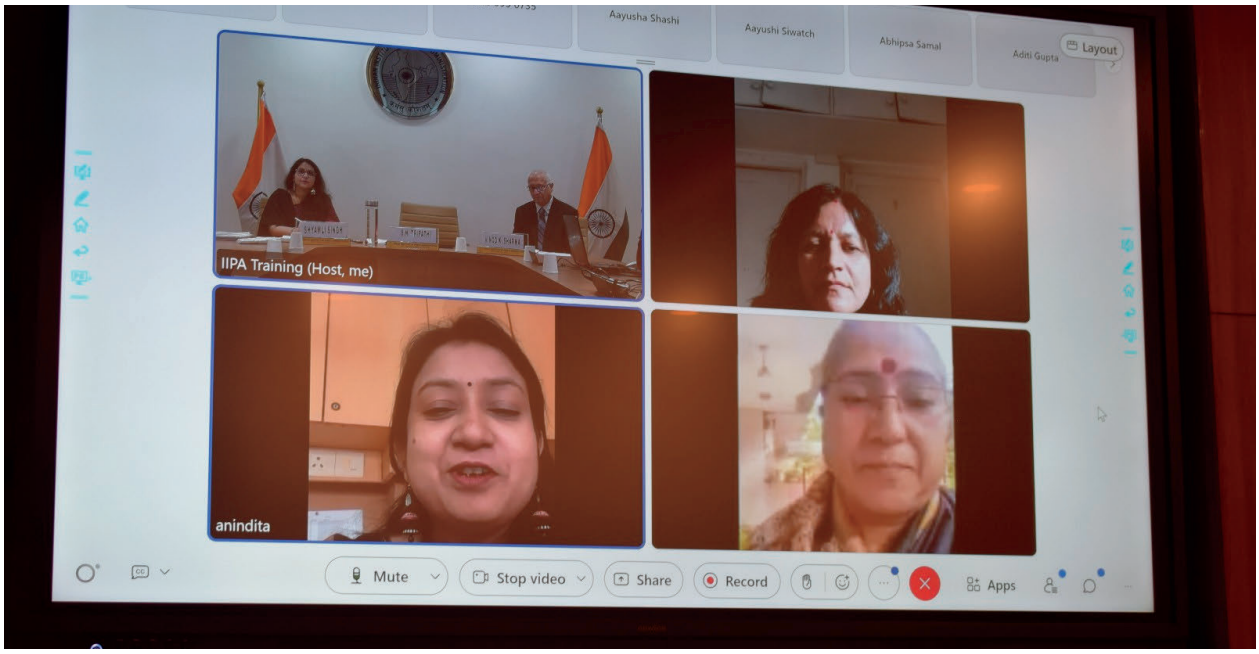


Image 30: Screenshot of Dr. Shyamli Singh session on the significance of Ganga during Ganga Samvad-Third Colloquy in November 2022

Image 31: Screenshot of inaugural session of Ganga Samvad-Third Colloquy in November 2022

Fourth Colloquy: ***Ganga Samvad***

Indian Institute of Public Management (IIPA) in collaboration of *Bhumiruha* - the Alumni Association of University School of Environment Management (USEM) of Guru Gobind Singh Indraprastha University (GGSIPU) and USEM jointly organized an immensely invigorating and enriching 'Fourth Colloquy: *Ganga Samvad*' through 'Blended Capacity Building Programme for stakeholders of River Ganga' on 23rd December 2022.

Image 32: Ganga Samvad-Fourth Colloquy & Ganga Pariprekshya A walk-in Photo exhibition. In frame; Dr. Sumit Dookia, Faculty, USEM, Prof. Rita Singh, Dean, USEM, Dr. Shyamli Singh, Faculty, Ms. Kanishka Sharma, Research Officer, Ms. Anugya Singh, Research Assistant and Ms. Monika Saini Research Assistant, Shri Anand, President Bhumiruha, with USEM Faculty and students: 23 December, 2022

Dr. Sumit Dookia, Faculty and Alumni Coordinator USEM and Prof. Rita Singh, Dean, USEM set the tone of the event with their encouraging words on the bio-cultural significance of the revered River Ganga. Acknowledging the objective of strengthening stakeholder capacity and public participation in Ganga River Management, Shri S. N. Tripathi, Director General, IIPA gave online presidential remarks, highlighting the role of holistic approaches and knowledge dissemination, followed by Dr. Shymali Singh, Faculty, IIPA, who brilliantly shared a glimpse of the activities of *Namami Gange* Programme and student engagement through web based training, introducing the Learning Management System (LMS) along with audio-visual and textual tailormade learning modules. The collaboration focused on encouraging participation of today's generation in partaking in the revival of the river, making it *Aviral* and *Nirmal*. Moving forward, Prof. Vinod K. Sharma, Faculty, IIPA delivered an online talk on Ganga River Management highlighting the synergy between ecology and economy, followed by demonstration of the LMS and a pledge by the audience to save Indian rivers.

The Hon'ble Vice Chancellor Dr. Mahesh Verma gave his wishes and enlightening message to the organizers and motivated to the organizing team for more such events in the future. The entire event was organized through close coordination of Mr. Anand, President Bhumiruha – Alumni Association USEM and other members with the help of staff of USEM. The half day event was very thought provoking to all the participants and faculties as how to disseminate the research and communicates to the stakeholders through various interactive media and publicity outreach material.

Image 33: Ganga Samvad-Fourth Colloquy & 'Ganga Pariprekshya' - A walk-in Photo exhibition: In frame; Dr. Sumit Dookia, Faculty, USEM, Dr. Shyamli Singh, Faculty, IIPA, Shri Mahesh Verma, Vice Chancellor GGSIPU Prof. Rita Singh, Faculty, USEM, : 23 December, 2022

Image 34: Partcipants of Ganga Samvad-Fourth Colloquy

National Mission for Clean Ganga (NMCG) initiatives taken to rejuvenate the river *Ganga* were talked about through the video, accordingly *Ganga* anthem was also played through a video. Prof. Vinod K. Sharma, Faculty, IIPA spoke about *Ganga* basin proem, followed by his talk on Reflection on *Ganga* modules. Accordingly, Learning Management System (LMS) session was taken by the IIPA team. Building motivation session for public participation was also taken by IIPA team followed by *Namami Gange* pledge. Finally the colloquy was concluded by vote of thanks proposed by Prof. Vinod K. Sharma.

Image 35: Ganga Samvad Fourth Colloquy & 'Ganga Pariprekshya' Lamp lighting ceremony : 23 December, 2022

Image 36: Ganga Samvad Fourth Colloquy & 'Ganga Pariprekshya' participants during breakout session

World Water Day 2023
Ganga Samvad

On the occasion of World Water Day 22 March, 2023; Indian Institute of Public Administration, New Delhi organized Sixth Colloquy: *Ganga Samvad* in collaboration with Department of Geography, Indraprastha College of Women, Delhi University at AV Lecture hall Indraprastha College of Women under the aegis of “Blended Capacity Building Program for Stakeholders of River Ganga” in the presence of Shri Surendra Nath Tripathi, Director General, Indian Institute of Public Administration, Prof. Poonam Kumria, Principal, Indraprastha College of Women; Prof. Vinod K. Sharma, Senior Professor, Indian Institute of Public Administration and Prof. Jyoti Trehan Sharma, Faculty, Indraprastha College of Women.

Image 37: Shri Surendra Nath Tripathi, DG, IIPA and Prof. Poonam Kumria, Principal, IPCW lamp lighting during inauguration

Image 38: Shri Surendra Nath Tripathi, DG, IIPA being felicitated by Prof. Poonam Kumria, Principal, IPCW

170 students from different departments of Indraprastha College of Women came to attend the event. The team from IIPA registered the attendees before the colloquy started. Attendees were provided a kit by IIPA. Colloquy was inaugurated by lamp lighting. Consequently, opening remarks were presented by Prof. Poonam Kumria, Principal, Indraprastha College of Women. It was followed by welcome note presented by Prof. Jyoti Trehan Sharma, OSD, Department of Geography, Indraprastha College of Women. Prof. Vinod K. Sharma gave the introductory address and briefed about the project - “Blended Capacity Building Program for Stakeholders of River Ganga”. Consequently presidential remarks were made by Shri Surendra Nath Tripathi, Director General, Indian Institute of Public Administration.

Image 39: Participants of World Water Day 2023 Ganga Samvad

Image 40: Prof. Vinod K. Sharma, Faculty IIPA giving the presentation on The Ganges

National Mission for Clean Ganga (NMCG) initiatives taken to rejuvenate the river Ganga were talked about through the video, accordingly *Ganga* anthem was also played through a video. Prof. Vinod K. Sharma, Faculty, IIPA spoke about *Ganga* basin proem, followed by his talk on Reflection on *Ganga* modules. Accordingly, Learning Management System (LMS) session was taken by the IIPA team. Building motivation session for public participation was also taken by IIPA team followed by *Namami Gange* pledge.

Image 41: Activity organized by IIPA team for students of IPCW

4.4 Capacity Building Programme for Spiritual Community and other Stakeholders

Ganga Jan Bhagidari Conclave
Banaras Hindu University

A *Ganga Jan Bhagidari* Conclave was organised with the joint efforts of Indian Institute of Public Administration (IIPA), New Delhi and National Mission for Clean Ganga (NMCG) in collaboration with Institute of Environment and Sustainable Development (IESD), Banaras Hindu University on Saturday. The event was attended by 50 schools from pan India locations via online mode, and 300 students from Varanasi via offline mode.

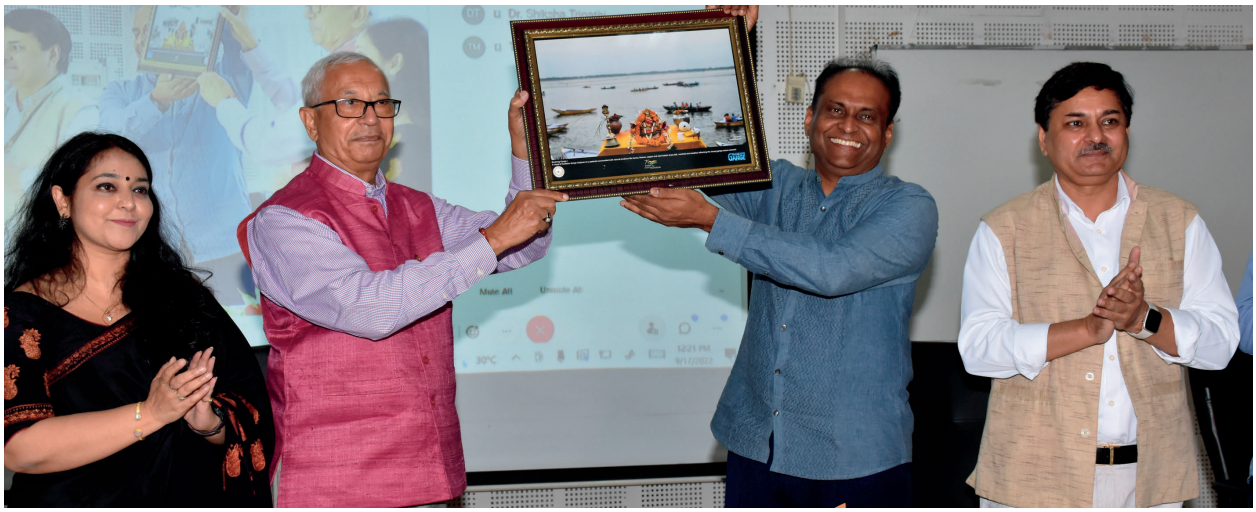


Image 42: Dr. Shyamli Singh, Faculty, Prof. Vinod K. Sharma, Faculty, Shri G. Asok Kumar, Director General, NMCG and Prof. Akhilesh Singh Raghubanshi, IESD, BHU at Seminar Complex, Faculty of Sciences, BHU: Ganga Jan Bhagidari Conclave,17 September, 2022

Image 43: Shri G. Asok Kumar, Director General, NMCG felicitating 'Save Ganga' poster competition winners with Prof. Vinod K. Sharma, Faculty, Dr. Shyamli Singh, Faculty, and Prof. Akhilesh Singh Raghubanshi, IESD, BHU at Seminar Complex, Faculty of Sciences, BHU: Ganga Jan Bhagidari Conclave,17 September, 2022

Image 44: Dr. Shyamli Singh, Faculty, Prof. Vinod K. Sharma, Faculty presenting IIPA Memento to Shri G. Asok Kumar, Director General, NMCG and Prof. Akhilesh Singh Raghubanshi, IESD, BHU at Seminar Complex, Faculty of Sciences, BHU: Ganga Jan Bhagidari Conclave,17 September, 2022

Image 45: Students and teachers at Ganga Jan Bhagidari Conclave at Seminar Complex, Faculty of Sciences, BHU: 17 September, 2022

Capacity Building Programme Jadavpur University

On February 15, 2023 Capacity Building Programme was organized by Indian Institute of Public Administration (IIPA), New Delhi in collaboration with South Asian Institute for Advanced Research and Development (SAIARD), Kolkata at Dr. *Triguna Sen* Auditorium, Jadavpur University, Kolkata under the aegis of "Blended Capacity Building Program for Stakeholders of River Ganga" in the presence of Shri Surendra Nath Tripathi, Director General, Indian Institute of Public Administration, Shri Biswajit Roy Chowdhury, Chairman Founder, South Asian Institute for Advanced Research and Development, Dr. Nandini Ghosh, Senior Special Secretary, Govt. of West Bengal, Prof. Tuhin Ghosh, Director, School of Oceanographic Studies, Jadavpur University, Prof. Vinod K. Sharma, Senior Professor, IIPA.

Participants from 34 institute attended the event which included 200 plus youth. IIPA team of 3 Research Assistants; Himanshi Negi, Monika Saini and Anugya Singh also came to facilitate the colloquy. The team from IIPA and SAIARD registered the attendees before the colloquy started. Attendees were provided a training kit by IIPA.

Image 46: Mr. Tanmoy Mukherjee, Senior Manager- Administration being felicitated by Shri Surendra Nath Tripathi, DG, IIP, in frame; Dr. Nandini Ghosh, Senior Special Secretary, Govt. of West Bengal, Prof. Vinod K. Sharma, Faculty, IIPA and Prof. Tuhin Ghosh, Faculty, Jadavpur University

Colloquy began with *Saraswati Vandana* performed by team SAIARD; which was followed by watering the plant by the dignitaries sitting on the dais. On behalf of IIPA, Shri Surendra Nath Tripathi, Director General and Prof. Vinod K. Sharma, Faculty, presented the memento, modules and calendars to the fellow dignitaries. Mr. Tanmoy Mukherjee, Senior Manager - Administration, Linde South Asia Services Private Limited was also felicitated by IIPA. Opening remarks were presented by Shri Biswajit Roy Chowdhury.

Image 47:Cultural performance by Saffron Dance Academy

Image 48: Dignitaries attending the Capacity Building Programme Jadhav University on 15 February, 2023

Prof. Vinod K. Sharma spoke about the project “Blended Capacity Building Programme for stakeholders of River Ganga” and it’s expectations in his presentation. This was followed by presidential remarks made by Shri Surendra Nath Tripathi, DG, IIPA. After presidential remarks, presentation on “Use of Low Cost Technology in Treating Sewer: A Case study & Reuse of Treated Water” was given by Dr. Nandini Ghosh. Another presentation was delivered by Prof. Vinod K. Sharma on “Key Aspects of River Ganga”. This was followed by Prof. Tuhin Ghosh’s presentation on “Ganga and her Delta”. Last but not the least; cultural performance was given by Saffron Dance Academy under the guidance of their mentor Mr. Probal Chokrobarthy. Prof. Vinod K. Sharma proposed vote of thanks. Dr. Shyamli Singh, Assistant Professor, IIPA and Prof. Vinod K. Sharma, Senior Professor, IIPA coordinated Fifth Colloquy: *Ganga Samvad.*

Image 49: Shri Surendra Nath Tripathi, DG, IIPA, Prof. Vinod K. Sharma, Faculty, IIPA with IIPA team (Left to Right)- Himanshi Negi, Anugya Singh and Monika Saini; Research Assistants, IIPA

Image 50: Attendees registering themselves for the Capacity Building Programme Jadavpur University on 15 February, 2023

Image 51: Prof. Vinod K. Sharma addressing participants of the programme

mage 52: Shri Biswajit Roy Chowdhury presenting opening remarks

Image 53: Cultural performance by Saffron Dance Academy

ROTARY CLUB 3291, WEST BENGAL

Civil societies, social clubs, business communities are an important stakeholders of the journey towards *Ganga* rejuvenation. To facilitate stakeholders interaction with the prestigious club of Kolkata, on 15th February, 2023; Indian Institute of Public Administration, New Delhi in collaboration with Rotary Club of East Calcutta, Rotary Club of Aaroha and Disaster Management Committee, Rotary International District 3291, organized seminar on role of Rotary club and business community in cleaning Ganga at Rotary Bhaban, 5 & 6 Hemchandra Naskar Road, Kolkata, West Bengal under the sponsorship of National Mission for Clean Ganga, Ministry of Jal Shakti, Department of Water Resources, River Development and Ganga Rejuvenation, Government of India.

The event was attended by about 100 people belonging to different sectors. The seminar began with a welcome address by Rotary Club Team, followed by opening marks presented by Prof. Indranil Kar, Principal, Surendranath College, Kolkata. Consequently, Prof. Vinod K. Sharma, Senior Professor, Indian Institute of Public Administration, New Delhi presented his remarks on Ganga Rejuvenation: Role of Rotary Club and Business Community. Prof. Vinod K. Sharma spoke about:

(1) Role of water resource in business
(2) Urbanization, its types, increase in urbanization and lifestyle change
(3) Importance of Kolkata, Ganga Sagar and significance of Kolkata as a religious place
(4) Agriculture and use of its products in business community.

Image 54: Rotary club organizers with Prof. Vinod K. Sharma, Faculty IIPA

Image 55: Dr. Sumit Poddar presented his recent book to Prof. Vinod K. Sharma; Faculty, IIPA

Image 56: Rotary club organizers presenting memento to Prof. Vinod K. Sharma; Faculty IIPA

The purpose of the seminar was to know how one can manage their water resources. Kolkata faces issue of arsenic contaminated groundwater. Arsenic is harmful to the eyes, liver, kidneys, lungs and lymphatic system. It is also important to conserve surface water. It helps in sustaining ecological systems and provide habitat for many animal and plant species. The seminar was volunteered by Dr. Sumit Poddar, Past President & Chairman, Rotary India District 3291, he then interacted with the gathering. IIPA team of 3 Research Assistants; Himanshi Negi, Monika Saini and Anugya Singh also came to facilitate the Rotary Club seminar. The members of rotary club promised Indian Institute of Public Administration for another meeting in future. Finally, Rotary Club Team proposed the vote of gratitude.

Image 57: Rotary club organizers presenting memento to Prof. Vinod K. Sharma; Faculty IIPA

4.5 Capacity Building Programme for General Mass - Ganga *Pariprekshya*

IIPA hosted photo exhibition to commemorate 75 years of *Azadi ka Amrit Mahotsav*. The exhibition was inaugurated on 29th July, 2022 by Hon'ble MoS (PP) Dr. Jitendra Singh, Chairman. The exhibition was open to public on - 29th July, 8th August, 10th August, and 12th August at IIPA Library and showcasing 75 pictures captured around *Ganga* River to present the various aspects of the river and livelihood of people connected with it. The event was attended by officers, students, master trainers and Institutions of the programme of schools of Delhi and NCR region. Detailed case studies on various aspect of Ganga was presented by project investigators during inaugural sessions. On different occasions and other training programme IIPA hosted *Ganga Pariprekshya* exbitions. Some other locations were GGSIPU Campus, Delhi University and Banaras Hindu University.

Image 58: Shri S.N. Tripathi, Director General, IIPA, Shri Amitabh Ranjan, Registrar, Hon'ble MoS (PP) Dr. Jitendra Singh, Chairman, Prof. Vinod K. Sharma, Faculty, Dr. Shyamli Singh, Faculty during inauguration of 'Ganga Pariprekshya' - A walk-in photo exhibition at TNC Hall: 29 July, 2022.

Image 59: Shri S.N. Tripathi, Director General, IIPA, Shri Amitabh Ranjan, Registrar, Hon'ble MoS (PP) Dr. Jitendra Singh, Chairman, Prof. Vinod K. Sharma, Faculty, Dr. Shyamli Singh, Faculty during inauguration of 'Ganga Pariprekshya' - A walk-in photo exhibition at TNC Hall: 29 July, 2022

Image 60: Ganga Pariprekshya A walk-in Photo exhibition. In frame; Dr. Shyamli Singh, Faculty, Shri S. N. Tripathi, DG, Prof. Vinod K. Sharma, Faculty felicitating Master Trainers: August, 2022

Image 61: Student participants of Ganga Pariprekshya A walk-in Photo exhibition: August, 2022

Image 62: Prof. Vinod K. Sharma, Prof. Rita Singh, Dean, USEM, GGSIPU; Prof. N.C. Gupta, Faculty, USEM, GGISPU, Prof. Anubha Kaushik, Faculty, USEM, GGSIPU with others

Image 63: Student participants of Ganga Pariprekshya A walk-in Photo exhibition at GGSIPU in December, 2022

Image 64: Student participants of Ganga Pariprekshya, A walk-in Photo exhibition at IPCW, Delhi University in March 2023

4.6 R-20 River Management Conservation as Culture

On 11th April, 2023; one day conference on River Management - Conservation as Culture was organized by Indian Institute of Public Administration (IIPA), New Delhi in collaboration with South Asian Institute for Advanced Research & Development (SAIARD) under the aegis of Blended Capacity Building Programme for Stakeholders of River Ganga sponsored by National Mission for Clean Ganga, Ministry of Jal Shakti, Department of Water Resources, River Development and Ganga Rejuvenation in the presence of Shri G Asok Kumar, Director General, National Mission for Clean Ganga; Shri Surendra Nath Tripathi, Director General, Indian Institute of Public Administration; Mr. Biswajit Roy Chowdhury, Founder Chairman and South Asian Institute for Advanced Research & Development. Along with them Prof. Vinod K. Sharma, Faculty, IIPA and Dr. Shyamli Singh, Faculty, IIPA who are the project investigators of the project were also present.

Image 65: Shri S.N. Tripathi, DG, IIPA, Prof. Vinod K. Sharma, Faculty IIPA, Dr. Shyamli Singh, Faculty IIPA, Mr. Biswajit Roy Chowdhury, Founder, SAIARD felicitating Shri G Asok Kumar, DG, NMCG

Participants from 6 colleges - Dr. Akhilesh Das Gupta Institute of Technology & Management, Vivekananda Institute of Professional Studies, Indraprastha College for Women, Guru Gobind Singh Indraprastha University, Bhagwan Parshuram Institute of Technology and Daulat Ram College attended the event which included about 300 students. IIPA team registered the attendees before the conference started. Attendees were also provided a kit by IIPA. The esteemed guests were felicitated by IIPA. The conference began by project overview given by Dr. Shyamli Singh, Faculty, IIPA. It was preceded by positive note delivered by Prof. VK Sharma, Faculty, IIPA to set the context for the conference. Consequently, Mr. Biswajit Roy Chowdhury, Chairman and Founder (SAIARD) put the R-20 into words. Shri Surendra Nath Tripathi, Director General, IIPA delivered the presidential remarks in context to his thoughts and insights about the conference. Also, Shri G. Asok Kumar, Director General, National Mission for Clean Ganga, Ministry of Jal Shakti, Department of Water Resources, River Development and Ganga Rejuvenation delivered the keynote address. The Walk-in Photo Exhibition - *Ganga Pariprekshya* was also displayed at IIPA.

First technical session titled “R20 - Government Initiatives” began by Prof. Vinod K Sharma, Faculty, IIPA and Dr. Shyamli Singh, Faculty, IIPA felicitating the session chair and the speakers. The session was chaired by Mr. Suresh Babu, Director - Rivers Wetlands and Water Policy, WWF India. Session’s first speaker was Dr. Shyamli Singh, Faculty, IIPA, she spoke about “Impact of Climate Change on Livelihood: Ganga Basin”

Image 66: Shri Surendra Nath Tripathi, DG, IIPA delivering the presidential marks

Image 67: Shri G Asok Kumar, DG, NMCG delivering the keynote address

Dr. Nandini Ghosh, IAS, Sr. Special Secretary UD & MA, & Program Director, WBSPMG, Govt. of West Bengal was the second speaker, she spoke about “Use of Treated Water (from Sewage Treatment Plant) in West Bengal”. Last but not the least, third speaker was Prof. Poonam Kumria, Principal, Indraprastha College for Women, DU; she spoke about “River Management”. Finally first session was concluded by an open discussion at the end. Conference was preceded by lunch break. Second technical session titled, “Wetlands Management” began by Prof. Vinod K Sharma, Faculty, IIPA and Dr. Shyamli Singh, Faculty, IIPA felicitating the session chair and the speaker. Prof. C. K. Varshney, Emeritus Professor, JNU; delivered chairman’s address for the session. Session’s speaker Dr. Siddarth Kaul, President, International Society for Wetlands; then spoke about “Wetlands Management”. Finally, second session was concluded by an open discussion at the end.

Third session titled, “Rivers and Natural Disasters” began by Prof. Vinod K Sharma, Faculty, IIPA and Dr. Shyamli Singh, Faculty, IIPA felicitating the session chair and the speaker. Shri Rajendra Ratnoo (IAS), Executive Director, NIDM; delivered chairman’s address for the session. Dr. Pooja Sharma, Faculty, Daulat Ram College, University of Delhi (DU) spoke about Climate Change and Water Conservation: Imperatives of Waste Water Treatment Plants. Consecutively, Prof. Vinod K. Sharma, Faculty, IIPA spoke about “River and Disasters”. Lastly, Dr. Shyamli Singh, Faculty, IIPA proposed the vote of thanks. Detailed schedule of the one day conference on River Management - Conservation as Culture is attached as annexure.

Image 68: Prof. Vinod K. Sharma, Faculty IIPA, Dr. Shyamli Singh, Faculty IIPA, felicitating Prof. C. K. Varshney, Emeritus Professor, JNU

CHAPTER 5

Mahatma Gandhi Setu, Patna

FEEDBACKS

Feedback is information provided to the learner about his or her performance in relation to learning objectives or outcomes. It is a valuable addition in a capacity building programme. It provides you with a detailed understanding of what your learners are doing and an in depth view of your training course without requiring you to attend the sessions yourself. Each training programme had feedback forms.

We also received e-mails and messages on the success of the programme.

Feedback for the training programme and sessions is required;

• To assess the gaps in provided services.

• To formulate better decisions to improve and increase performance.

• To upgrade resources/content/services.

5.1 Feedback from School Students

We collected feedback from school students through Google Form and our Learning Management System (LMS), incorporating a variety of questions related to the training. The Google Form allowed us to create a customized questionnaire that covered different aspects of the Capacity Building Programme. Students were able to provide their thoughts, suggestions, and experiences regarding the Capacity Building Programme. By utilizing Google Form's diverse question formats, such as multiple-choice, rating scales, and open- ended responses, we ensured a comprehensive and insightful feedback collection process. This enabled us to gain a deep understanding of the students' perspectives and identify areas of improvement or further development in the Capacity Building Programme. The digital nature of Google Form made it convenient for students to participate and submit their feedback, promoting active student engagement and collaboration in shaping the Capacity Building Programme LMS feedback form and Google form is placed in Annexure VII and Annexure VIII respectively.

Response collected from the School Students through Learning Management System (LMS)

Future view of attending more such Capacity Building Programme sessions

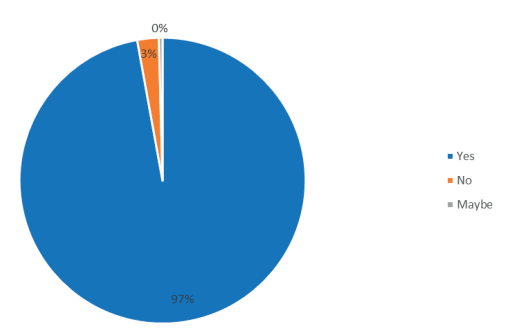


Figure 08: Future view to attend more such Capacity Building Programme sessions

Response collected from School Students through Google Form

View on Capacity Building Programme helped towards Ganga Awareness

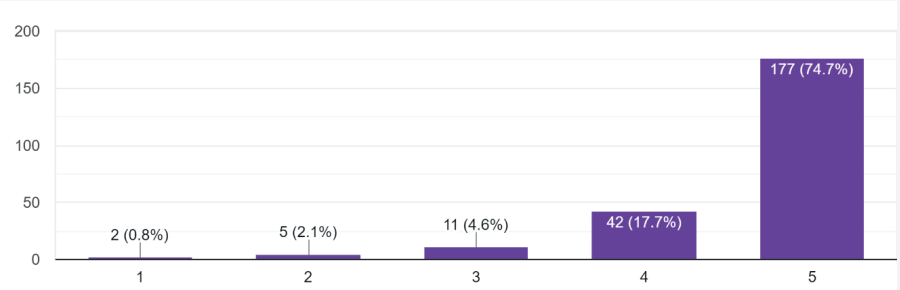


Figure 09: View on Capacity Building Programme helped towards Ganga Awareness

5.2 Feedback from Master Trainers

Management System (LMS), incorporating a range of diverse questions that focused on different aspects of the training. Utilizing the versatile features of Google Form, we designed a customized questionnaire to gather their valuable insights, suggestions, and experiences related to the Capacity Building Programme. The master trainers were able to provide feedback on various elements such as content, delivery methods, effectiveness, and overall impact of the training. By leveraging the digital platform, we ensured a seamless and efficient feedback collection process, allowing the master trainers to share their perspectives conveniently. Analyzing the feedback received through Google Form enabled us to identify areas of strength, areas for improvement, and further opportunities to enhance the Capacity Building Programme, ultimately contributing to its continuous growth and effectiveness. LMS feedback form and Google form form is placed in Annexure IX and Annexure X respectively.

Response collected from Master Trainer through Google Form

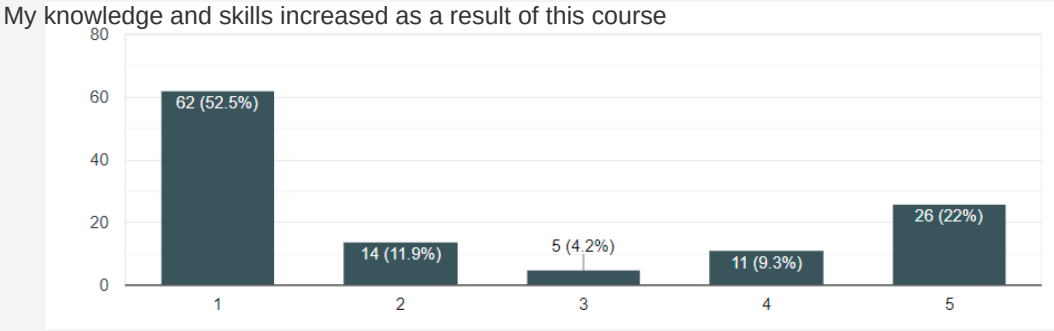


Figure 10: My knowledge and skills increased as a result of this course

5.3 Feedback from College Students

We collected feedback from college students through our Learning Management System (LMS), incorporating a diverse range of questions that focused on different aspects of the training. Using the flexible features of LMS, we designed a customized questionnaire to gather their valuable insights, suggestions, and experiences related to the Capacity Building Programme. The college students were able to provide feedback on various elements such as the relevance of the Capacity Building Programme to their studies, the effectiveness of the Capacity Building Programme methods, the applicability of the content, and their overall satisfaction with the Capacity Building Programme experience. By utilizing the digital platform, we ensured a convenient and accessible feedback collection process, allowing the college students to share their perspectives effortlessly. LMS feedback form is placed in Annexure XI.

5.4 International *Yoga* Day 2023

Indian Institute of Public Administration conducts training programme for the project "Blended Capacity Building Programme for Stakeholders of River Ganga" under *Namami Gange* for school children. IIPA has embarked on the journey of the training to build a pool of competent trainers and students who would carry forward the knowledge related to River Ganga and the concerns for conservation and rejuvenation.

Image 69: Poster of Ghat par Yoga organised by NMCG at Zero Pushta, Sonia Vihar

Retaining this thought in mind, IIPA requested the schools that have previously participated in the school trainings to join us in celebrating the International Day of Yoga by encouraging their students. Indian Institute of Public Administration contacted the schools via e-mail and WhatsApp to raise the awareness and solicit their involvement. The theme for this year is "Yoga for *Vasudhaiva Kutumbakam*" (One Earth, One Family, One Future) emphasizing the importance of yoga for the well being of all individuals, regardless of discrimination. The event took place at BSF Kayaking Camp, Zero Pushta, Sonia Vihar, Delhi near the ghats of River Yamuna from 6:30 am onwards.

Yoga is a physical, mental and spiritual practice which originated in ancient India. The word "*Yoga*" derives from Sanskrit and means to join or to unite, symbolizing the union of body and consciousness. Since its introduction at the United Nations General Assembly in 2014, the International Day of *Yoga* has been observed yearly on June 21 around the world. The Prime Minister of India Narendra Modi, in his UN address in 2014, had suggested the date of June 21, as it is the longest day of the year in the Northern Hemisphere and shares a special significance in many parts of the world.

Image 70: IIPA team participated in Ghat par Yoga organised by NMCG at Zero Pushta, Sonia Vihar

Image 71: Participants of Ghat par Yoga organised by NMCG performing Yoga at Zero Pushta, Sonia Vihar

As we are aware that lot of schools were on their summer vacations, students joined to celebrate International Day of Yoga with great enthusiasm and shared exclusive pictures as feedbacks of themselves doing yoga with us.

Delhi Public School, Howrah
Principal: Ms. Sunita Arora
Nodal teacher: Ms. Priyanka Gupta
Number of participants: 164

Image 72: Delhi Public School, Howrah school students performing yoga

Buddha World School, Vaishali

Principal: Dr. Sarika Malhotra

Nodal teacher: Ms. Monika Giri

Number of participants: 166

Image 73: Buddha World School, Vaishali school teachers performing yoga

Govt. Co-ed sec School, BLK-2, Geeta Colony, New Delhi

Principal: Ms. Saroj Sushil

Nodal teacher: Mr. Naushad Ali

Number of participants: 50

Image 74: Artworks for Yoga Day

Image 75: Govt. Co-ed sec School, BLK-2, Geeta Colony, New Delhi school teachers performing yoga

DAV Model School, Asanol, West Bengal

Principal: Mr. Amit Kumar Das

Nodal teacher: Mr. Chandan Pramanik

Number of participants: 150

Image 76: DAV Model School, Asanol, West Bengal school students performing yoga

Rashtra Shakti Vidyalaya, Uttam Nagar, New Delhi

Principal: Mrs Shashi Tyagi

Nodal teacher: Neeta Pant

Number of participants: 152

Image 77: Rashtra Shakti Vidyalaya, Uttam Nagar, New Delhi school students performing yoga

CHAPTER 6

LEARNING MANAGEMENT SYSTEM

A learning management system (LMS) is a web-based education hub that offers a comprehensive and important set of capabilities to support educational activities such as classroom instruction, distant education, and continuing education. Trainers desire a simple approach to develop content for their classes and manage their resources, data, and learner audiences in today's technology-driven world. Additionally, they must give the best learning experiences possible to adequately prepare pupils for the future. An LMS may significantly improve students' learning experiences and teaching activities, regardless of whether they are instructor-led, self-paced, or incorporate blended learning and microlearning. *Namami Gange* landing page hyperlink has been linked with official IIPAs homepage (https://www.iipa.org.in/cms/public/). The *Namami Gange* webpage has been further hyperlinked with has IIPAs specified web domain (https://iipa.education/) for its learning management system that makes it easier to navigate inside the LMS content. The steps to reach of Capacity Building of River *Ganga* course is placed in Annexure XII.

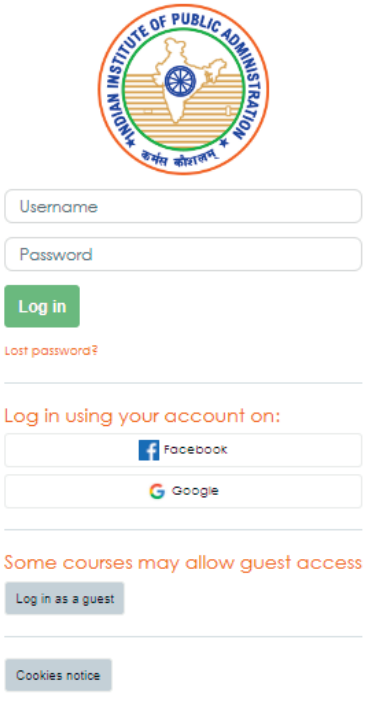


Image 78: Screenshot of LMS portal

MOODLE: One of the reasons Moodle is the world's top learning management system is that it is backed by a global developer community. A significant advantage of open-source software is that the code is transparent. This means that developers from any country can access and modify the code to make it more secure. The primary reason IIPA chose Moodle for *Namami Gange* Programme is that it is highly adaptable, extremely adaptable, and feature rich. Apart from the ability to edit Moodle's open-source code, there are hundreds of Moodle plugins that enable you to customise Moodle's behaviour.

The training program has a wide variety of stakeholders and IIPA's MOODLE can cater different sets and subsets of audiences.

The system encompasses the entire range of educational institutes and industry professionals:

- Gamifying Your E Learning
- Individual Learning Plans
- Assessing Your eLearning: Questionnaire
- Ticking Who's Present: Attendance
- Engaging You Again: Reengagement
- Custom Certificate
- Beautifying Your Content Arrangement: Tiles Format

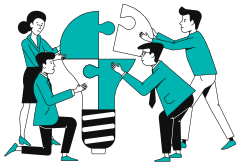
LMS IS USED FOR

MANAGING EDUCATIONAL ACTIVITY

Creating & Delivering Educational Content

Assessing Students & Analyzing their results

Tracking Student Progress



Collaborating on Projects

Making Learning more interactive & engaging

Image 79: Key Features of LMS Platform

CHAPTER 7

Third Party Audit Report

Third Party Audit of the Project "Blended Capacity Building Programme for Stakeholders of River Ganga" (2020-2023)

1. Introduction

NMCG entrusted the project "Blended Capacity Building Programme for Stakeholders of Ganga River" sponsored by the Namami Gange Programme to Indian Institute of Public Administration (IIPA) for three years i.e. from July 2020 - June 2023 with the aim of raising awareness and educating stakeholders about the critical importance of the River Ganga. These efforts were designed to actively involve stakeholders and foster a sense of collective responsibility towards this shared goal.

2. Objectives

- To serve as a guide for the trainer
- To serve as an awareness guide and later reference for trainees
- To provide content for e-learning applications
- To highlight the current status of the river

3. Stakeholders

The stakeholders involved in the project are diverse and varied, includes:

a) School students
b) Master trainers
c) College students
d) Urban local body officers
e) Spiritual leaders
f) General masses

4. Observations and Recommendation

The project successfully employed a targeted approach, utilizing blended learning methodologies to provide stakeholders with an extensive understanding of the River Ganga's significance. Comprehensive course modules covered ecological, social, economic and cultural dimensions, inspiring stakeholders to actively participate in conserving and rejuvenating the River. Given the prevailing circumstances during the COVID-19 pandemic, there may have been inherent challenges in reaching out to the designated stakeholders. However, it is noteworthy that despite these obstacles, IIPA has demonstrated commendable success in attaining the said objectives and has performed admirably in the face of the pandemic. The project has also demonstrated exceptional commitment by organizing several photo exhibitions and conferences, expanding awareness efforts **beyond the committed proposed activities**. However, the engagement of urban local body officers fell short, possibly due to COVID-19, personnel unavailability or scheduling constraints. Thus, it is advisable to devise new strategies to outreach these stakeholders. Additionally, the budget and manpower allocation are deemed sufficient and the planned activities is justified.

Covid has opened up new opportunities for online programmes resulting in better coverage, saving of time and expenditure also. IIPA should consider scaling up the awareness and training programs covering much higher number of stakeholders through online mode.

(Dr. Ruchi Badola)
Dean, FWS

CHAPTER 8

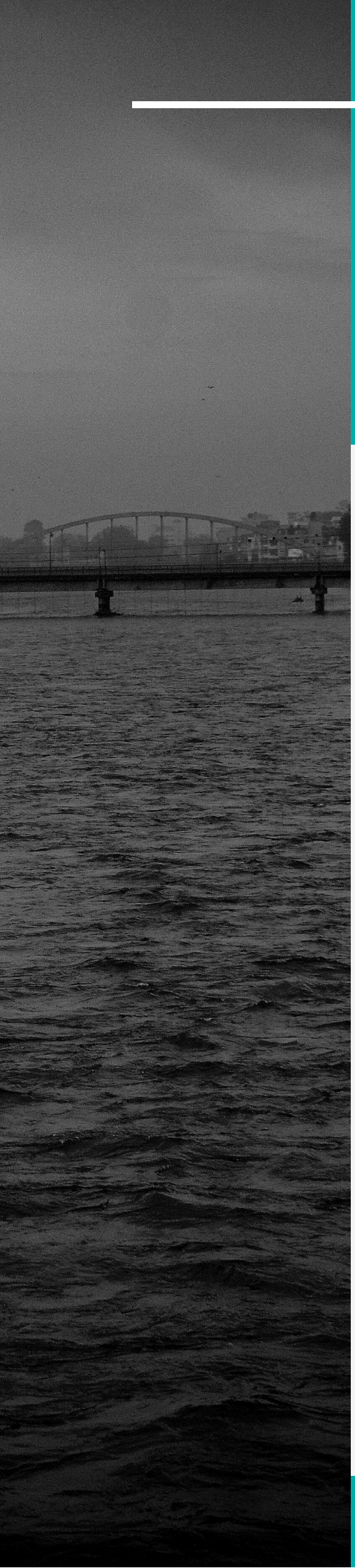
WAY AHEAD

Our team has been working closely with NMCG for the past three years to implement this project, and team are proud to report that team have made significant progress towards achieving our shared goals. The targets have been achieved in flying colours by conducting 60+ training programmes with about 18,000+ School & College students, 1000+ Master trainers, 122 ULB Officers, 200+ Academia members and 5000+ members of Spiritual community. Team ha sproduced a large amount of content and knowledge products as a result of our collaboration with your organisation. This was good learning for the institute.

River *Ganga* is a lifeline for millions of people in India but unfortunately, the river has been facing several challenges over the years. As NMCG is extending horizon, on similar lines our project is designed to address some of these challenges by involving more stakeholder groups that have been identified, namely are, Central Universities, Scientific Institutions, Agencies & Departments, Agriculture workers, Extension Services, KVKs, Agriculture Universities, Policy Makers, Civil Society, NGOs Industry and Corporate Sector (ESG Professionals) and District Ganga Committees, *Ganga Prahari*, *Ganga Doots*, *Ganga Mitra* along with previous identified stakeholders like Master Trainers, College students, Academia, School Students, ULB /PRI Officers, General Masses and Spiritual Community in the ongoing conservation and rejuvenation efforts.

During the past three years, team has successfully implemented a range of activities, including awareness campaigns, community mobilisation, exhibitions, capacity building workshops, and conferences, among others. These activities have helped us to engage with a wide range of stakeholders, build partnerships, and generate momentum for the cause of *Ganga* rejuvenation. As team look ahead, team believe that there is still a lot of work to be done, and team is committed to continuing our efforts towards the restoration of the River *Ganga.* Therefore, in light of the fact that our project will end on June 30, 2023, team has proposed that NMCG consider renewing our project for another three years, so that team can build upon the successes team have achieved so far and scale up even further under the mentorship of two project investigators Prof. Vinod K. Sharma and Dr. Shyamli Singh. A detailed project proposal attached as Annexure XIII

Team is confident that with continued NMCG support and guidance, team can make significant progress towards our shared vision of a clean and healthy River *Ganga*.



CHAPTER 9

RESOURCE DIRECTORY

The Resource Directory's (RD) goal is to disseminate specialized resources that aid in the development of sustainable and mature data archives as well as the development of new concepts and features within current data archives. The RD is a curated inventory of current resources that collects, selects, and reviews information on pertinent papers, training materials, tools, and support services. IIPA Team ventured on locating resource persons who would add important knowledge and value to the training course. Since the training covered schools and colleges from the belt of *Ganga*, the engagement was diverse and resource persons engaged were plenty. The information and opinions received from them were used to ensure effective training.

The research team also established contact with various industries during their exposure visit. Surveys were conducted with local people to understand the situation and communicate the information during the training. By integrating their own experience, District Urban Development Agency and District magistrate's secretary played the role of resource persons and helped in to getting nominations and their contacts for Urban local body officers training programme. Similarly, School and college teachers or coordinators were engaged during school and college capacity building programme to build a knowledge sharing platform and helped in achieving the intended objectives. Mutual collaboration of human expertise was created during the photo documentation visit as well in which the team engaged with the experts and locals to get a hold of the nexus of *Ganga* Rejuvenation. The contact details of the resource persons have been recorded in Annexure XIV

CHAPTER 10

PARTNERS & COLLABORATORS

ANNEXURES

(attached seperately)

Annexure I: Poster Competition winners

Annexure II: Poems by School Students and School Students Posters

Annexure III: Publications abstracts

Annexure IV: Participants List

Annexure V: Certificate Templates

Annexure VI: All Capacity Building Programme Schedule

Annexure VII: LMS Feedback from School Students

Annexure VIII: Google Feedback from School Students

Annexure IX: Google Feedback from Master Trainers

Annexure X: LMS Feedback from Masters Trainers

Annexure XI: LMS Feedback from College Students

Annexure XII: Steps to reach LMS

Annexure XIII: Phase 2 Proposal and Audit Report

Annexure XIV: Resource Directory

Rishikesh, Uttarakhand

Indian Institute of Public Administration
New Delhi

Indraprastha Estate, Ring Road, Mahatma Gandhi Marg,
New Delhi 110002

Website- www.iipa.org.in