



# ENVIS-IITM NEWSLETTER

Indian Institute of Tropical Meteorology, Pune  
**Atmospheric Pollution & Climate Change**  
(The project of Ministry of Environment, Forest & Climate Change, Govt. of India)

## IITM - GSDP 2019 Air Pollution Monitoring Emission Inventory



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## Editorial

In line with the Skill India Mission of Hon'ble Prime Minister, Ministry of Environment, Forest & Climate Change (MoEF&CC) has launched Green Skill Development Programme. The ENVIS Resource partner at Indian Institute of Tropical Meteorology, Pune (IITM,Pune) has become the part of this program. It has taken up an initiative for skill development in the environment and forest sector to enable India's youth to get gainful employment and/or self-employment. That contribute to protecting and restoring the quality of the environment for sustainable future and include jobs that protect ecosystems and biodiversity, reduce energy and minimize waste and pollution. Therefore, GSDP course includes process-based green skills such as monitoring, managing activities under environmental management. The two courses 'Emission Inventory' and 'Air Pollution Monitoring' are designed by the experts in a unique way which would enable the participants to tackle the cognitive and practical work , at various levels in the Environment fields in India. These courses will impart the necessary skills to attain them a job which require skills to monitor air pollution and execute an air emission inventory respectively. The quarterly newsletter will give a brief account of the ongoing GSDP at IITM, Pune.

**-Dr. Gufran Beig**

## Green Skill Development Programme (GSDP) Newsletter

Realizing the need for developing the green skills, the Ministry of Environment, Forest & Climate Change (MoEF&CC) is utilizing the vast network and expertise of Environmental Information System (ENVIS) hubs and Resource Partners (RPs). The Ministry has taken this initiative for skill development in the environment and forest sector to enable India's youth to get employment and/or self employment known as GREEN SKILL DEVELOPMENT PROGRAMME (GSDP). The candidates having developed their skills under this programme will have technical knowledge and commitment towards sustainable development. The GSDP covers diverse fields such as pollution monitoring (Air/Water/Soil), Sewage Treatment Plant, waste management, forest management, water budgeting, auditing etc. The basic idea of all these courses is to inculcate green skills in an individual in short duration. It includes process-based green skills such as monitoring, managing activities under environmental management. In the first stage, a pool of Master Trainers/specialists is being created, who can further train the youth across country. All courses will be National Skills Qualifications Framework (NSQF) compliant. The Ministry will give Certificates towards sustainable development.



### About IITM GSDP

In India, Ministry of Environment, Forest & Climate Change (MoEF&CC) initiated a Central Sector Scheme known as ENVIS (Environmental Information Systems) which provides scientific and technical information on various environmental issues which facilitates policy formation and environment management. IITM Pune is running one of such ENVIS

center since 2003 on the thematic area “Atmospheric Pollution and Climate Change” and achieved several milestones. Today, ENVIS website of IITM has one of the largest free access data bases on acid rain, air pollution and climate change subject area.



The IITM has a treasure of eminent scientists and experts which are globally known for their innovative research in the field of Atmospheric sciences and climate change. Having confidence on this treasure ENVIS – resource partner at Indian Institute of Tropical Meteorology (IITM), Pune has been entrusted in conducting the training under GSDP under two courses namely, 1. “Air Pollution Monitoring” and 2. “Emission Inventory”. It is believed that these courses will inculcate the necessary skills to obtain them employment which require skills to monitor air & execute an air emission inventory.

### **Interview for Second Batch of GSDP**



After the advertisement was published about GSDP courses, 134 applications were received. The big challenge for ENVIS IITM was to select appropriate candidates for each course. The required criteria for both the courses were graduates from science stream only, as it would be beneficial for students to understanding the subject. To select

impressive candidates, a diverse selection committee was formed. The committee includes

experts from government, private, non-governmental organizations and on field practitioners to interview the candidates. After interview eligible candidates were selected to form the second batch of GSDP at ENVIS IITM.

### **Inauguration of GSDP Courses at IITM**

The courses were inaugurated on 15<sup>th</sup> October 2019 with the chief guest Hon'ble Joint Director MoEF&CC, Govt. of India Ms. Urmila and Guest of Honor Prof. Ravi Nanjundiah, Director IITM, Pune. The function started with introduction to GSDP by Dr. G. Beig, ENVIS-Coordinator & Scientist-G.

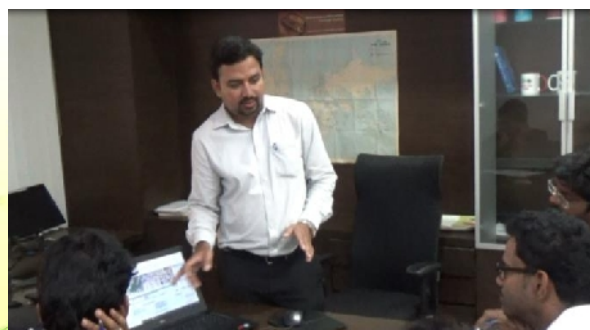
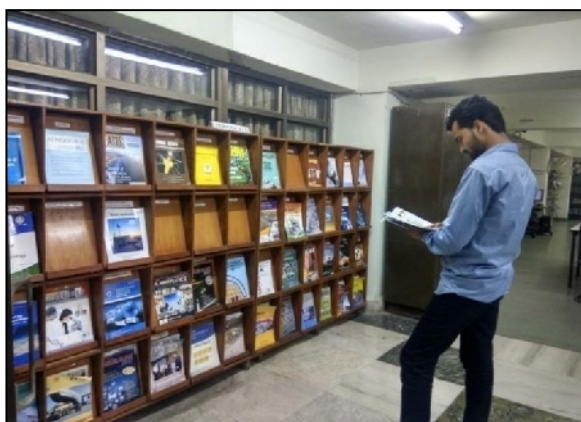


### **Experts for GSDP Lectures**



As the participants were from various field, for their better understanding of the environmental concepts we have chosen subject experts who has vital and had huge experience in academics. We invited the experts from several research institutes from different regions of India, Uttkal University, Eco support, Mumbai, Pune University, Fergusson College, Symbiosis institute of Geoinformatics, Private Companies, along with the Scientists from IITM. The course manual for the same was prepared by the experts from ENVIS IITM team.

## Practical's and Field Visits



GSDP as a course was designed in such a way that the more importance was given to practical's than theory, so every participants get hands-on practical training. As IITM is well known for developing India's first Air Quality Monitoring System; it has wide range of instruments and real-time monitoring sensors based stations. Therefore we arranged the demonstration for GSDP students of those air quality monitoring instruments with all technical information by the technical experts at IITM. Both courses of GSDP includes students from different regions of India so for that reason one day in orientation week we conducted IITM all laboratories, library and departments visit for them. Through this visit they got all important information about IITM in short period.

In modern environmental science studies/research Geographic Information System has become central part as per their importance we invited experts for teaching GIS to all our participants with proper training of GIS software by conducting special GIS practical's along with lectures.

For their better understanding of all the subjects we have arranged field visits to National Ambient Air Quality Monitoring Station for air pollution monitoring batch and Emission Survey in different sectors of Pune for Emission inventory batch. Apart from the classroom learning we organize study tour at Mahabaleshwar for GSDP students.



In this tour we visited our IITM institute branch in Mahabaleshwar and got crucial information about ongoing projects. Besides study we have seen Mapro garden and venna lake.

### **Cultural Programme & Extracurricular Activities**



To maintain the balance between academic and extracurricular activities for the GSDP students, IITM ENVIS centre organize a couple of competitions like Group Discussion, Quiz, Debate, PPT Presentations, Documentary making & Photography competitions. This competition helped students to develop & showcase their skills like communication, creative thinking, innovative ideas, and provide an opportunity to explore their subject knowledge, facts in one platform. After showing the active participation, unity and enthusiastic response of GSDP students in extracurricular activities they had to show their special talents in the form of cultural program. The program consist of dance, songs and poem on environment theme.

### **Valedictory Function and Exams**

After comprehensive classroom learning, field activities and the fun filled activities, it was time for testing their skills and knowledge candidates had achieved throughout the course. we were continuously assessed them every week through weekly reports, internal exams.

Both courses final exams which constituted both theory as well as GIS practical's designed by experts along with Viva. Our Second batch of GSDP Courses was passed out with 100% results, the outstanding performers were selected as master trainers. The valedictory for both batches was held on 24<sup>th</sup> November 2019, the chief guest was Shri. Yashvir Singh, Economic Advisor MoEF&CC, and Prof. Ravi Nanjundiah, Director, IITM, Pune.

### **Outcomes of GSDP**

- These course gives an opportunity for the candidates to get employed in Pollution Control Boards, Industries, and Research Institutes/Organizations carrying out EIA studies or Pollution Monitoring.
- After successful completion of this course the candidates can assist in sampling, analysis, data interpretation, survey in emission inventories and management of pollution in various sectors of environment.
- IITM ENVIS conducted a placement drive which included private organizations, to give them an exposure to the industry and how to apply their knowledge, also some participants explored jobs & got opportunity to work with the municipal corporation under smart city project.



**IITM-GSDP- Second Batch 2019**

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