



**CSIR- Institute of Minerals and Materials Technology (IMMT)  
Environment & Sustainability Department, Bhubaneswar-751013, Odisha (India)**

**Website: [www.immt.res.in](http://www.immt.res.in)**

**CSIR-Skill Development Training Program: Basic and Advance Skills for Environmental Analysis (BASEA-1): 11<sup>th</sup> -13<sup>th</sup> March, 2019 (Basic training) and 11<sup>th</sup> -15<sup>th</sup> March, 2019 (Advance training)**

CSIR-Institute of Minerals and Materials Technology (Formerly RRL) was established on 13<sup>th</sup> April, 1964 under the aegis of the Council of Scientific and Industrial Research (CSIR), New Delhi. Since 2007, after it's renaming as IMMT, renewed research focus primarily in the areas of Minerals & Materials resources engineering strengthen. At CSIR-IMMT, basic R&D problems and technology oriented programs in wide range of subjects like mining, minerals, metals and environmental domain are undertaken to achieve sustainable development. Institutes has very modern laboratory and analytical facilities which can cater to the skill development programme. It has well experienced manpower and other necessary facilities like lecture hall, library, computer labs with internet facility.

Environment & Sustainability department is one of the important part of CSIR-IMMT engaged with environmental R & D. Also, recently, NABL accreditation for Environmental Chemical Lab (ECL) and Environmental Biological Lab (EBL) provides services regarding testing of selected water, soil and air parameters. The proposed skill development training program on "Basic and Advance Skills for Environmental Analysis (BASEA-1) targets to impart training- cum Skill Development course with immense practical knowledge about majority of basic and advance analytical lab as well as instruments to science students (10+2) onwards, research scholars, and interested persons from industries. The training will develop human resource, who can contribute towards the growing manpower requirement in environmental analytics field and support Skill Development' programs under National Skill Development Mission.

Training Programs	Duration	No. of Seats	Eligibility
Basic Skills for Environmental Analysis	3 days (11 <sup>th</sup> -13 <sup>th</sup> March, 2019)	15	Intermediate (10 + 2 Science) / Bachelor/Master's degree in Science- basic/ Any other science & Engineering degree/Industry Personnel
Advance Skills for Environmental Analysis	5 days (11 <sup>th</sup> -15 <sup>th</sup> March, 2019)	15	Bachelor/Master's degree in Science/ Any other science & Engineering degree/Industry Personnel.

**ABOUT TRAINING PROGRAMME:** The training will be primarily oriented towards imparting skills and knowledge on environmental (Air, water and soil) sampling, sample preparation, processing and analysis. The program aims at providing a hands on training on various instrumental methods according to the specified protocols. An elaborate training on principles of important instruments their integrated instrumental methods of analyses will be imparted by the experts.

## **OBJECTIVES OF TRAINING PROGRAMME**

- ❖ To acquaint regarding good laboratory practices (GLP's) of environmental labs.
- ❖ To provide theoretical and practical knowledge about laboratory method of analysis on air, water, soil and microbes with modern analytical instruments.
- ❖ To improve skills for handling modern analytical instruments like UV-VIS, AAS, ICP-OES, TOC, Ion-Chromatograph, XRF, High Volume Air Sampler, Noise Meter, GPS operation, PCR etc.

## **SALIENT FEATURE OF THE TRAINING:**

Theory: Practical = 50: 50

Interactive sessions: Small group of five trainees for practical classes

### **Evaluation of Trainees:**

Continuous evaluation through viva-voice along with theory and practical examination.

Certificates will be awarded on successful completion of the training.



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**CSIR-Skill Development Training Program Basic and Advance Skills for Environmental Analysis (BASEA-1): 11<sup>th</sup> -13<sup>th</sup> March, 2019 (Basic training) and 11<sup>th</sup> -15<sup>th</sup> March, 2019 (Advance training)**

Course fee can be paid by net banking or Demand Draft of any nationalized bank in favour of “Director, CSIR-IMMT” or can be processed online to:

Account No. : 30267734773 (current account); Name of Bank: State Bank of India Bank; Branch: SBI, IMMT CAMPUS BRANCH, IFSC CODE: SBIN007499; BHUBANESWAR- 751013.

Rs. 4000 (Four Thousand only) - for Basic training (3 days) and Rs. 10,000 (Ten Thousand only) for advance training (5 days)

- The trainee delegates have to make their own arrangements for lodging, boarding, travel etc. for attending the skill development training course.

**Other Information:**

a) It's a 'Non-residential' program.

b) Training venue: CSIR- Institute of Minerals and Materials Technology, Acharya Vihar, Bhubaneswar-751013, Odisha (India)

How to apply and Selection: 1. Candidates have to apply as per the application format given in this advertisement.

2. Selection will be made based on first come first serve and fulfilling the criteria by screening committee.

Organizer: Dr. Manish Kumar, Sr. Scientist, Phone (Off): 0674-237-9360 and 9438038409; e-mail: [manish@immt.res.in](mailto:manish@immt.res.in)

Dr. N K Dhal, Chief Scientist & Head, E & S Department, Phone No. 0674-237-9411 e-mail: [nkdhal@immt.res.in](mailto:nkdhal@immt.res.in)



**CSIR- Institute of Minerals and Materials Technology (IMMT)  
Environment & Sustainability Department, Bhubaneswar-751013, Odisha (India)  
Website: www.immt.res.in**

**CSIR-Skill Development Training Program Basic and Advance Skills for Environmental Analysis  
(BASEA-1)**

**(Last Date for Receipt of Application: 8<sup>th</sup> March, 2019; up to 5.30 PM)**

**Application form**

To,

The Director,

CSIR-Institute of Minerals and Materials Technology Acharya Vihar, Bhubaneswar-751013

1. Name of the Candidate: \_\_\_\_\_
2. Father's / Guardian's Name: \_\_\_\_\_
3. Category: General/ OBC/ SC / ST: \_\_\_\_\_
4. Date of Birth: \_\_\_\_\_
5. ID Proof\* (Aadhaar Card/Authentic ID): \_\_\_\_\_
6. Permanent Address: \_\_\_\_\_  
\_\_\_\_\_
7. Communication Address: \_\_\_\_\_  
\_\_\_\_\_
8. Educational Qualifications: \_\_\_\_\_
9. Research/industry Experience: \_\_\_\_\_
10. Any other (Employment history/ relevant training acquired): \_\_\_\_\_
11. Phone No(s) : \_\_\_\_\_ E – Mail : \_\_\_\_\_  
\_\_\_\_\_
12. Course Name applied for (Basic/Advance): \_\_\_\_\_

I \_\_\_\_\_ hereby declare that statements made in the application are true, complete and correct to the best of my knowledge and belief, and in the event if any of the information is found false or incorrect or any ineligibility, my candidature is liable to be cancelled and action may be initiated against me.

Candidate's Signature

\* Original ID is required for candidate verification for the training



**CSIR-Skill Development Training Program Basic and Advance Skills for Environmental Analysis (BASEA-1)**

**Environment & Sustainability Department, CSIR- IMMT, Bhubaneswar-751013, Odisha**

**Basic Training: 11th–13th March, 2019 (3 days) and Advance Training: 11<sup>th</sup> -15<sup>th</sup> March, 2019 (5 days)**

**Course Organizer:**

Dr. Manish Kumar  
Dr. N K Dhal

**Technical Committee:**

**Training Area: Water**

Dr. M G Sujana  
Dr. Arakshita Majhi  
Dr. Asheesh Yadav  
Dr. Pravat Manjari Mishra  
Dr. Boopathy Ramasamy

**Training Area: Air & Noise**

Dr. Trupti Das  
Dr. D R Satpathy

**Training Area: Soil/Solid-waste**

Dr. Manish Kumar  
Dr. S M Mustakim  
Mr. Biswaranjan Das

**Training Area: Micro-biology**

Dr. Sony Pandey  
Dr. Nilotpala Pradhan  
Mr. Sathis R  
Dr. B S Jena  
Dr. U Subudhi

**Advance Instrumentation**

Dr. Bibhuranjan Nayak, Head CCC  
Dr. S K Mishra  
Mrs. Swagatika Mohanty  
Mr. Debadatta Sahoo

**Local Organizing Committee**

Dr. N C Rout  
Mr. Biswaranjan Das

**Skill Development Coordinator**

Dr. S.K. Pradhan (CSIR-IMMT)  
(skpradhan@immt.res.in)

Department of Environment & Sustainability, CSIR-IMMT Bhubaneswar is organizing the **Skill Development Training Program Basic and Advance Skills for Environmental Analysis (BASEA-1)** during **March 11<sup>th</sup> – 13th/15<sup>th</sup> March, 2019**. With progress of time, day by day environmental related challenges associated with air, water and soil pollution are increasing. Therefore, human resource well trained with environmental analytical techniques will make them suitable for not only industries but also various labs as well as entrepreneurs associated with it. Knowledge with practical experiences with instrumental techniques builds the foundations in early carrier and develop the skill to make them job ready. Also, the advance skill training program will update skills of analytical environmentalist working in various educational institutions, research institutes and industries. Areas to be covered during the training program are 1. Know-how about environmental laboratory, basic as well as advance method of analysis on environment (Air, Water and Soil). Knowledge about tools and analytical instruments related environmental sampling, processing, treatment and analysis. The programme consists of lectures in the morning sessions and demonstration of experiments in the afternoon sessions. Lectures will be delivered by scientists and academicians. The target participants are motivated students, young academics, research scholars, industrial personnel and budding scientists. A total of **30 participants (15 each in basic and advance training)** will be selected for this programme. Certificates to the participants will be given on the basis of participation and evaluation during the programme.

Course fee can be paid by net e-banking or D.D. of any nationalized bank in favor of "Director, CSIR-IMMT" or can be processed online to A/C No: 30267734773 (current account) IFSC CODE: SBIN0007499. NAME OF BANK: STATE BANK OF INDIA BRANCH: SBI, IMMT CAMPUS BRANCH, IMMT, BHUBANESWAR- 751013.

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**Last Date for Receipt of Application: 8<sup>th</sup> March, 2019; up to 5.30 PM**

General information about the programme is available at <http://www.immt.res.in>

Those desirous of participating in BASEA-1 should send the filled and signed application form through proper channel by post or e-mail to

1. Dr. Manish Kumar, Sr. Scientist, Environment & Sustainability Department, CSIR-IMMT, Bhubaneswar-751013; [manish@immt.res.in](mailto:manish@immt.res.in)/[manishrrlenu@gmail.com](mailto:manishrrlenu@gmail.com)
2. Dr. N K Dhal, Head, E & S Dept., CSIR-IMMT, Bhubaneswar-751013; [nkdhal@immt.res.in](mailto:nkdhal@immt.res.in)