

## COURSES IN GENERAL METEOROLOGY

- Met. Gr. II Training Course of duration 12 Months for newly recruited Group-A officers fulfilling WMO BIP-M requirements (held at Pune for General Meteorology & Agrometeorology and at New Delhi for Meteorological Instruments, Communication & information system)
- Advanced Meteorological Training Course of duration 12 Months for non-departmental national & overseas Group-A officers fulfilling WMO BIP-M requirements (held at Pune for General Meteorology & Agrometeorology and at New Delhi for Meteorological Instruments, Communication & information system)
- Forecaster's Training Course of duration 6 Months for promoted Group-B officers fulfilling WMO BIP-M requirements (held at Pune & New Delhi Centres)
- Integrated Meteorological Training Course of duration 4 months fulfilling WMO BIP-MT requirements (held at Pune, New Delhi, Kolkata & Chennai Centres)
- Intermediate Course in Meteorological Instrumentation and Information System
- MTI also designs and conducts customized tailor-made courses on subjects of topical interest, with short duration.

### ADVANCED REFRESHER COURSES CONDUCTED SO FAR

1. June 1970	Stratospheric Meteorology	31. April 2005	1st Batch of Aviation Refresher course for SO & SA's
2. March 1971	Numerical Weather Prediction	32. Sept. 2005	2nd Batch of Aviation Refresher course for SO & SA's
3. May 1972	Hydrometeorology	33. Sept. 2006	Multistakeholder consultation workshop cum seminar on Communicating Meteorology
4. March 1974	Agricultural Meteorology	34. Feb. 2007	Special Refresher Course on General Meteorology for Salt Commission Personnel & salt manufacturers
5. Feb. 1975	Satellite Meteorology	35. May 2007	Met. Training course for observers of Army/SASE. (Conducted at MMC Sringeri) under project PARWAT
6. Oct. 1975	Aeronautical Meteorology	36. July 2007	Direct Trainer skills course conducted jointly by MoES & IMD at CIL, Pune
7. Feb. 1976	Tropical Cyclones	37. Sept. 2007	Met Training course for observers of Army/SASE. (Conducted at MMC Sringeri) under project PARWAT
8. Dec. 1976	Numerical Weather Prediction	38. Sept. 2007	Direct Trainer skills course conducted jointly by MoES & IMD at Goa
9. Feb. 1977	Agricultural Meteorology	39. Dec. 2007	First Advanced course on Astronomy
10. Dec. 1977	Atmospheric Waves	40. May 2008	Met. Training course for observers of Army/SASE. (Conducted at MMC Sringeri) under project PARWAT
11. Feb. 1984	Synoptic Analysis in Tropics with special reference in Aeronautical Meteorology	41. May 2008	Refresher Course on Hydrometeorology for staff working at FMO
12. April 1989	Short Range Weather Prediction including use of Numerical Weather Prediction products	42. May 2008	Met. Training course for observers of Army/SASE. (Conducted at MMC Sringeri) under project PARWAT
13. Jan. 1991	Cyclone Warning	43. July 2009	Mid level update Course for Naval met. officers
14. Sept. 1991	Aviation Meteorology	44. Nov. 2009	Aviation Meteorology
15. Sept. 1992	Cyclone Warning (Emphasizing operational aspects and use of PCs in operational work)	45. March 2010	Workshop for Journalists under Outreach Programme
16. Dec. 1993	Aviation Meteorology (SAARC Seminar cum Training Workshop)	46. March 2010	Workshop for Teachers under Outreach Programme
17. Sept. 1994	Satellite and Radar inputs for Cyclone Warning (Conducted at New Delhi)	47. Sept. 2010	WMO CLIPS Workshop on Urban Climatology
18. May 1995	Operational Numerical Weather Prediction models	48. Sept. 2011	Aviation Refresher Course
19. Dec. 1995	SAARC Seminar cum Workshop on Tropical Cyclones and Forecasting (Conducted at Calcutta)	49. Nov. 2011	Mid level update Course for Naval met. Officers
20. Jan. 1996	LSF and Climate Change	50. Nov. 2012	Application of DWR Products in NWP
21. April 1996	Mesoscale systems and circulation with special emphasis on Tropical cyclones	51. Dec. 2013	Short term Training course in General Meteorology
22. Nov. 1996	Aviation Meteorology	52. Nov. 2014	WMO Group Training Course "Instrument Maintenance & Calibration"
23. Sept. 1996	SAARC Training Workshop on Long Range Weather Forecasting and Climate Change	53. Aug. 2015	Operational Climate Services
24. May 2002	Aviation Meteorology	54. Dec. 2016	WMO Group Training Course "Instrument Maintenance & Calibration"
25. Sept. 2002	Special Refresher Course on General Meteorology for Naval Officers	55. March 2017	Aviation Meteorology
26. Dec. 2002	Special Refresher Course on General Meteorology for Salt Commission Personnel & salt manufacturers	56. Feb. 2018	Refresher course on interpretation of NWP products for weather forecasting services
27. April 2004	Numerical Weather Prediction	57. March 2019	Refresher course on Diagnostic / Synoptic Meteorology
28. May 2004	Environmental Meteorology	58. Nov. 2019	Advanced Refresher course in "Aviation Meteorology"
29. May 2004	1st National Workshop for Port Meteorological Officer's	59. Dec. 2019	International Training Workshop on "Operational Climate Services"
30. June 2004	Special Refresher Course on General Meteorology for Naval Officers		

## CONTACT DETAILS



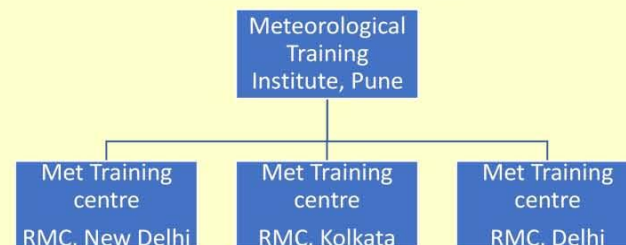
### IMPORTANT LINKS

- IMD main website: <https://mausam.imd.gov.in/>
- IMD Pune website: [www.imdpune.gov.in](http://www.imdpune.gov.in)
- MTI: <https://metnet.imd.gov.in/imdetp/>

## BRIEF HISTORY

- Training services of IMD has a distinguished history dating back to 1942 when it had a humble beginning as an outcome of World War II wherein the need for meteorological training to the personnel working in IMD was acutely felt and, consequently, a formal training course started in that year at Pune.
- In 1943 a full-fledged training school started in Pune, India.
- Later Since then this training institute has undergone dramatic changes in its training capabilities, composition, objectives, contents, etc, in catering to personnel covering all levels from Class I to Class IV.
- IMD also opened training centres at New Delhi for Upper Air Instrumentation and Meteorological Telecommunication in mid-seventies.

### Organizational structure of IMD Training in General Meteorology



## Earth System Science Organisation Ministry of Earth Sciences India Meteorological Department Capacity Development Service Meteorological Training Institute (MTI)



Human Resource Development has always been one of the prime thrust areas of the India Meteorological Department for capacity building and to keep pace with latest trends in various activities of the Department. Training activities and services of IMD, rendered at MTI, IMD, Pune and ICITC, IMD, Delhi, are functioning as WMO RTC components in India since 1986. Being WMO RTC components MTI Pune & ICITC, New Delhi are committed in the Capacity building & development of personnel of IMD, NM&HS of the countries in the Asia-Pacific Region and personnel of Defense services of Govt of India in the field of operational Weather & Climate services, Agriculture Meteorology, Meteorological Instruments, Communication & information system. To fulfil above commitments, IMD organizes training programs, catering different categories of Meteorological personnel.

## WMO RECOGNITION



The WMO Executive Council at its 38<sup>th</sup> session approved the designation of the training facilities of India Meteorological Department in New Delhi and Pune as WMO Regional Training Centre (RTC) for the Regional Association II (Asia) in the year 1986. In accordance with the procedures laid down for the formal recognition of the RTC, an agreement was drawn up and signed on the behalf of India by Dr. R. P. Sarkar, the then Director General of IMD and on behalf of WMO by Professor G.O.P Obasi, the then Secretary General of WMO on June 15th 1988, a red letter day in the annals of

MTI

### FOREIGN TRAINEES TRAINED IN GENERAL METEOROLOGY TILL DECEMBER 2019 = 284

AFGHANISTAN 19	GHANA 01	LESOTHO 10	NEPAL 05	SRI LANKA 27	UAE 02
BANGLADESH 11	IRAN 02	MALDIVES 30	NEW GUINEA 02	SUDAN 05	UGANDA 01
BRUTAN 20	INDONESIA 02	MAURITIUS 22	OMAN 12	SYRIA 09	VANUATU 01
DOHA QATAR 02	KENYA 01	MALAYSIA 11	OMAN 03	TANZANIA 02	VIETNAM 06
EAST AFRICA 03	KOREA 03	MONGOLIA 02	PHILIPPINES 04	THAILAND 03	YEMEN 14
ETHIOPIA 35	LAOS 04	MYANMAR 02	SEYCHELLES 01	TRINIDAD & TOBAGO 01	ZAMBIA 01
				FUJI 05	



## ACHIEVEMENTS

- 1942:** Beginning of formal training courses for IMD personnel as an outcome of World War II.
- 1943-1944:** Commencement of an organised training school at Pune.
- 1952:** A training programme in Radio Sonde and Radar started at New Delhi.
- 1962:** Establishment of regular Radio Sonde and Radio Meteorological training centre.
- 1963:** Training to the Naval and Air Force Officers started.
- 1966:** Training of Army officers and NGOs for the preparation of Meteorological reports
- 1967:** First foreign trainee admitted.
- 1969:** Training Directorate came into existence.
- 1970:** Start of the advanced refresher courses on special subjects such as Numerical Weather Prediction, Atmospheric waves, Satellite Meteorology, etc.
- 1976:** Establishment of Agro-meteorological training unit.
- 1977:** Estt. of training centre for telecommunication at New Delhi.
- 1980:** Commencement of Ab-initio training course for Class I Meteorologists.
- 1985:** Visit of WMO Secretary General to training centres.
- 1986:** Recognition of training centres at Pune and New Delhi as WMO, Regional Meteorological Training Centre.
- 1988, June 15:** Agreement concerning the new RMTTC signed by WMO Secretary General and D.G. of Meteorology.
- 1989:** Start of an exclusive trainees' hostel facility.
- 1990:** Upgradation of Training Directorate to Training Division headed by DDG of Meteorology (Training).
- 1999, July 26:** Re-designation of the Training Division at Pune as Central Training Institute (CTI).
- 2000:** Commencement of "tailor made training modules" catering to the specific requirements of various user agencies.
- 2001:** Introduction of training on payment basis.
- 2002:** First visit of member of WMO EC Panel of Experts on education and training for evaluation of RMTTC.
- 2003:** Inclusion of Head of RMTTC, Pune in the WMO EC Panel of Experts on education and training for the first time.
- 2004:** Introduction of modern teaching aids.
- 2009:** Syllabi of the subjects of all the training courses have been revised by a panel of experts and have been implemented.
- 2011:** MoU has been signed between IMD & the Andhra University for the recognition of Advanced Meteorological Training Course
- 2015-2019:** 67 Group-A officers, 250 Group-B officers and 565 Scientific Assistants of IMD; 37 Group-A officers from Indian Navy & Indian Coast Guard and 15 overseas trainees have been trained in long term training courses. 25 overseas participants attended short term international training programs/ workshops.
- 2020:** 6 long term routine training courses, with duration 4-12 months, have been organized, 252 newly recruited Scientific assistants, 50 Group-B officers of IMD, 7 officers from Indian Navy, 2 officers from Indian Coast Guard and 3 officers from Fiji Met

## FACILITIES AT MTI

- ❖ **Conventional Teaching Aids**
- ❖ **Overhead Projectors**
- ❖ **LCD (Multimedia) Projectors**
- ❖ **Auditorium for Conferences and Seminar**
- ❖ **Printed Lecture Notes, Study Material and Reprographic Facilities**
- ❖ **Computer Aided Learning Material on various topics**
- ❖ **Video Cassettes on several topics.**
- ❖ **Well-equipped library**
- ❖ **Computer laboratory**
- ❖ **Full-fledged surface weather observatory including Pilot Balloon observation.**
- ❖ **Guides and Supervisors for project preparation**
- ❖ **NWP lab enabling trainees to have hands on exercise**
- ❖ **Broadband internet facilities through NKN**
- ❖ **Video conferencing**
- ❖ **Smart interactive board (Digital Boards) with virtual class facility**

