



QATAR AERONAUTICAL ACADEMY

RTC-QATAR

**QAA offers full-time,
approved courses for**

Meteorologists

Pilots

Aircraft Maintenance
Engineers

Air Traffic Controllers

Airport Operations
Managers

DEPARTMENT OF METEOROLOGY

- ▶ The department is a recognized training Centre by WMO and GCC countries.
- ▶ **The courses offered in the department are based on WMO syllabi leading to a Higher National Diploma in Meteorology.**
- ▶ The degree is approved by Reading University, UK to continue the education to obtain BS degree in Meteorology.
- ▶ The department equips with labs of latest technology in Weather Forecasting to train the students to make them ready to work in,
- ▶ National Met services of any country as Senior Technician and Forecasters.

TRAINING FACILITIES

MET. OBSERVATORY



TRAINING FACILITIES

MET. Library



**Total number of books in the library - 700
(210 publications)**

Visual Weather Lab



Meteorology Courses

- ▶ The course in meteorology is of two and half year's duration. Prior to taking up the courses in meteorology, the prospective student has to complete one year of English language course and six months of technical English course (IELTS 5.5) including physics and mathematics.
- ▶ The courses follow the WMO syllabus reorganised as per job requirement of Qatar Civil Aviation Authority.

Meteorology Course duration and Entry requirements

#	Course	Duration	Entry requirement
I	BIP-MT –Basic Instruction Package for Senior Meteorology Technicians (Integrated Course) This course is in Compliance with BIPM	2½ Year (2750 hours)	Pass in senior secondary school with Physics and Mathematics with 80% marks and IELTS score 5.5
1	BIP-MT(JL) - Junior Met Technician course (Former WMO-Class-IV)	6 Months (550 hours)	Pass in Senior secondary School with Science subjects
2	BIP-MT(ML) - Met Technician course (Former WMO-Class-III)	One Year (1100 hours)	Pass in BIP-MT (JL)
3	BIP-MT(SL) - Senior Met Technician course (Former WMO-Class-II)	One year (1100 hours)	Pass in BIP-MT (ML)
II	Basic Instruction Package for Meteorologists : BIPM – Forecaster Course	One Year (1100 hours)	BSc graduates with Physics, Maths or Geo Physics.

SHORT COURSES IN METEOROLOGY

Course	Duration
Marine Meteorology	2Weeks
Climate Data Processing and Analysis	2Weeks
Surface Meteorological Instruments and Observation	2Weeks
Satellite Meteorology	2Weeks
Weather Forecasting	2Weeks
Aviation Meteorology for Forecasters	2Weeks
Aviation Meteorology for Technicians	2 Weeks
Agro-Meteorology	2 Weeks
Introduction to Aeronautical Meteorological Observations	2 weeks

Course Curriculum

- ▶ **The two and a half year Higher National Diploma course is built into a program that is aimed at providing students with classroom and practical environment. The course covers in depth subjects such as ,**
- ▶ **Physics, Mathematics, Computer science, Meteorological instruments, Plotting and analysis of weather maps, Meteorological data processing, Climatology, Atmospheric Physics, Thermodynamics, Atmospheric dynamics Satellite meteorology Synoptic meteorology, Ocean dynamics, Agro-meteorology, Seismology, Numerical weather prediction, Aviation Meteorology and all the conventional and modern techniques of Weather analysis and Forecasting**
- ▶ **The course content and the level of study is in par with as that of a Bachelors degree in Meteorology of any University, which helps the students to take up higher studies.**
- ▶ **The level of training helps the students to work as weather forecasters.**

COMPLIANCE WITH BIP-MT and BIP-M

- ▶ The curriculum, level of study and the practical training provided during the two and a half years of Meteorology course provide the students competent enough to work as Senior Met Technicians and Forecasters as per WMO Requirements.
- ▶ **The Course meet all Compliance requirements of BIP-MT and BIP-M level .**

ACTIVITIES DURING 2020

- ▶ **ONGOING COURSES DURING 2020**
- ▶ **1. BIPM-Forecaster (Omani students)**
- ▶ **2. BIPMT-SL-I (Qatari Students)**
- ▶ **3. BIPMT-JL (Students from Somalia and Qatar)**

ONLINE –TEACHING-CHALLENGES

- ▶ **DUE TO THE SUDDEN DECLARATION OF LOCKDOWN THE TEACHING METHODOLOGY WAS SWITCH OVER TO ONLINE MODE FROM MARCH 2020 WITHOUT MUCH NOTICE .**
- ▶ **DID NOT GET ANY PREPARATION TIME TO TRAIN THE STUDENTS TO ATTEND TO ONLINE PLATFORM STUDIES WHICH WAS QUITE NEW TO THEM.**
- ▶ **THE ONLINE PLATFORMS LIKE GOOGLE CLASSROOM AND ZOOM VIDEOS WERE USED FOR TEACHING AND TRAINING THE STUDENTS.**

ONLINE -TEACHING

- ▶ **THE SYLLABUS FOR THE MODULES, LESSON PLANS , COURSE BOOKS, STUDY MATERIALS , POWER POINT PRESENTATION FOR ALL TOPICS WERE SEND TO THE STUDENTS TO THEIR PERSONAL EMAILS**
- ▶ **AND SIMULTANEOUSLY UPLOADED IN THE GOOGLE CLASSROOM EVERY WEEK IN ADVANCE.**
- ▶ **THIS HELP THEM TO FAMILIARISE WITH THE SYLABUS AND TOPICS DISCUSSED EVERY WEEK.**
- ▶ **LIVE LESSONS WERE CONDUCTED THROUGH ZOOM CLASSES BY FOLLOWING THE REGULAR TIME SCHEDULE ,SIMILAR TO THE NORMAL ONE**

ASSIGNMENTS/QUIZ/ HOMEWORK

- ▶ **ASSIGNMENTS/ QUIZ AND HOMEWORK WERE GIVEN TO THE STUDENTS AT THE END OF EVERY LESSON THROUH GOOGLE CLASSROOM PLATFORM**
- ▶ **PROVIDE ASSISTANCE AND HELP TO THE STUDENTS IN SOLVING ASSIGNMENTS AND PROBLEMS.**
- ▶ **THE STUDENTS WERE INTERACTING WITH THE TEACHERS THROUGH LIVE MEDIAS AND ALSO THROUGH GOOGLE CLASSROOM.**

MOCK TEST AND CLASS EVALUATION AND FINAL EXAMINATION

- ▶ **MOCK TEST AND CLASS PROGRESS TEST WERE CONDUCTED THROUGH GOOGLE CLASS ROOM BY SUPERVISING THE STUDENTS THROUGH ZOOM VIDEO CLASS.**
- ▶ **ASSESSMENT OF THE STUDENTS WERE QUITE SUBJECTIVE AND NOT VERY RELIABLE BY THIS METHOD.**
- ▶ **FINAL EXAMINATION FOR ALL MODULES WERE CONDUCTED AT THE ACADEMY BY OBSERVING ALL COVID-19 PROTOCOL AND FORMALITIES.**
- ▶ **HOWEVER SOME PRACTICAL TEACHING AND EXAMINATIONS WHICH REQUIRE CLOSE PERSONAL INTERACTION WITH INSTRUMENTS AND EQUIPMENTS COULD NOT BE CONDUCTED AT THE DESIRED LEVEL. THIS WAS A DRAW BACK.**

PROBLEMS FACED DURING ONLINE TEACHING

- ▶ THE FOLLOWING ARE THE PROBLEMS AND DRAW BACK FACED DURING THE ONLINE TEACHING PERIOD,
- ▶ 1. LACK OF FAST INTERNET CONNECTIVITY AND FREQUENT FAILURE OF CONNECTIVITY AT STUDENTS PLACE.
- ▶ 2. STUDENTS WERE UNABLE TO RECTIFY IT ESPECIALLY FOR OUR OMANI STUDENTS AS TECHNICIANS WERE NOT PERMITTED INSIDE THEIR HOME DUE TO COVID RESTRICTIONS.
- ▶ 3. AUDIO AND VIDEO WERE NOT WORKING TOGETHER IN SOME INSTANCES
- ▶ 4. SOME OF THE GIRL STUDENTS WERE RELUCTANT TO OPEN THE VIDEO MODE DUE TO THEIR PRIVACY ISSUES.
- ▶ 5. LATE LOG IN BY SOME STUDENTS
- ▶ 6. ONLINE TEACHING NEEDS A LOT OF EFFORT BY THE TEACHERS BY CALLING EACH STUDENT BY NAME AND ASKING THEM QUESTIONS AND TO GET CONFIRMATION WHETHER THEY UNDERSTAND THE LESSON DISCUSSED ETC.
- ▶ 7. PRACTICAL LESSONS COULD NOT BE CONDUCTED TO THE DESIRED STANDARD AND COMPETANCY.

BLENDED LEARNING

- ▶ BLENDED LEARNING INTRODUCED FROM SEPTEMBER 2020
- ▶ THREE DAYS FACE TO FACE CLASS IN THE ACADEMY AND TWO DAYS ONLINE THROUGH ZOOM LESSON WERE CARRIED OUT.
- ▶ MOST OF THE PROBLEMS FACED DURING THE PREVIOUS SEMESTERS WERE RESOLVED DURING THIS PHASE AND WAS QUITE SUCCESSFUL
- ▶ LAPTOPS WERE ISSUED TO ALL STUDENTS IN THE ACADEMY
- ▶ STUDENTS WERE PERSONALLY BRIEFED AND ALL TEATHING PROBLEMS REGARDING ONLINE TEACHING AND LEARNING WERE RESOLVED.
- ▶ PROBLEMS FACED FOR CONDUCTING PRACTICAL CLASSES ARE TOTALLY RESOLVED BY THIS METHOD.
- ▶ **BLENDED LEARNING IS QUITE ADAPTABLE EVEN FOR A LONG PERIOD FOR ALL TYPE OF LONG AND SHORT COURSES.**

BLENDED LEARNING

- ▶ blended learning is quite adaptable even for a long period for all type of long and short courses.



Thank you.....

- Qatar Aeronautical Academy
- P.O Box 4050 Doha – State of Qatar
- Operator Tel: (+974) 44408888
- Main Fax: (+974) 44357034
- Email: info@qaa.edu.qa
- www.qaa.edu.qa