



PAKISTAN CAA - CATI

PERIODICAL

CIVIL AVIATION TRAINING INSTITUTE HYDERABAD

Pub. No. 22/02, Jul - Dec 2022



FROM THE EDITOR'S DESK

Dear readers

I have the privilege to present the latest issue of our much awaited journal "CATI Periodical". This bulletin comprehensively covers the major events carried out by CATI, highlighting the future endeavors of CATI, latest developments and new technologies in aviation field globally. The current space carries message of the honourable Director General of Pakistan CAA on the auspicious occasion of Civil Aviation Day. It also discusses about digitization of training activities as well as showcases briefly the audit of TRAINAIR PLUS carried out by ICAO Assessor. Moreover, this release contains pictorial articles on "Experience Sharing Platform" and "Continuing Development (CPD) program". A summary of other activities are also part of this issue.



We urge the readers to share their feedback on further improving the content and quality of magazine. Don't hesitate to contribute articles comprising 300 - 500 words particularly on emerging trends in aviation. This is your magazine and your ownership will enhance its prestige and value.

Enjoy the read.

With best wishes

Nawaz Ahmed Sipra

Chief Editor

DG CAA MESSAGE

ON THE OCCASION OF 40TH ANNIVERSARY OF PAKISTAN CIVIL AVIATION AUTHORITY



Flt Lt (R) Khaqan Murtaza, PAS
Director General, Pakistan Civil Aviation Authority

I congratulate all CAA officers and staff on the 40th anniversary of PCAA. 7th December is not only a special day for us but also for the whole aviation industry across the globe. It is declared as an International Civil Aviation day by the United Nations to commemorate the creation of International Civil Aviation Organization (ICAO) earlier in 1944.

CAA, as a public sector entity, has a great amount of responsibility to live upto the expectations of all its stakeholders. The present and future challenges lying ahead are immense due to rapid advancement in the aviation sector. It should be our endeavor to stand up to our core values that we jointly develop and make collective efforts to achieve the vision and mission of the organization. CAA is our identity and it is in our own interest to improve its brand image. The organizational transformation and improvement journey that we have to embark upon is a continuous process. As we all share this joyous moment, I would urge each one of you to put in all your energies for improving your performance and commitment to this great organization that you represent and work for.

May Allah always guide us to contribute in making Pakistan CAA as one of the leading aviation authorities in the world. Aameen.



The Digitization of Education

“Technology can become the 'wings' that will allow the educational world to fly farther and faster than ever before; if we will allow it.”
- Jenny Arledge -

The advent of the 21st Century saw a boom in technological advancement. New technologies emerged at a rapid pace and the world soon realized that long term success can only be guaranteed through technological integration in every sphere of life. Smartphones, laptops and high speed internet have become household names. Now, the whole world lies in the palm of your hand and every sector must evolve in order to keep up with these developments.

The education sector is one of the most crucial elements of any society. This sector is of utmost importance as it is responsible for the grooming and development of future generations. Therefore, adopting technological innovation in the education system is the need of the hour. The learning needs of today's youth cannot be effectively fulfilled through conventional teaching methodologies and require modernization on priority, in order to equip students with the knowledge and skills to survive in today's era. It would not be wrong to term this era as the age of digitization.

Before moving forward let's look into the meaning of this term.

“Digitization is the process of converting information into a digital (i.e. computer-readable) format. The result is the representation of an object, image, sound, document or signal (usually an analog signal) in binary form.”

Digitization is the current trend, as digital technologies are being integrated in everyday life. A new phase of learning has begun which has been spurred by the recent COVID-19 pandemic. These developments involve the following:

- **Online courses**

Now you can attend a training session being conducted hundreds of miles away on your computer screen. New softwares like Microsoft Teams and Zoom allow students to participate in an interactive environment, pretty much similar to a physical classroom. This digital classroom provides huge cost savings and flexibility without compromising the effectiveness of the training being conducted.

Online courses eliminate the need for physical premises, boarding / lodging facilities for students and utility costs. Therefore, the courses can be offered at significantly lower rates. This leads to a win-win situation for the students and institutes alike.

Institutes also have the option to develop and offer their own set of online courses to a wider customer base through the use of digital channels. This allows smaller institutes a chance to enter the mainstream market and compete with big players, which was previously impossible, considering the constraints involved.

These are just a few of the many advantages of online courses. Of course there are downsides to consider as well, but the advantages comfortably outweigh the disadvantages, making this option a very lucrative choice for educational institutes.

- **Online exams**

Computer based exams (CBEs) have also opened up new avenues for aspiring students and professionals. The online exam facility is convenient for both the teachers and students. The benefits of online exams are quite similar to the benefits of online courses and CBEs are usually integrated with online courses to form a complete package.

CBEs also help in promoting a green culture. Moreover, the marks are shared in real time without any delays, saving precious time for the students as well as the teachers.

- **Digital textbooks**

Also prevalent with other names like e-textbooks and e-texts, digital textbooks provide an interactive interface in which the students have access to multimedia content such as videos, interactive presentations, and hyperlinks on their devices. Again this has many advantages that have already been discussed above, however, the most significant advantage is the promotion of a paper free environment.

- **Animation**

It is widely accepted that students tend to learn in a better manner when visual media are used instead of the conventional teaching methods. This approach not only promotes

learning but also captivates the interest of the students transforming learning into a fun activity, rather than a burden.

By offering a visual representation of the topic, students grasp the concept in a more understandable manner. Even the toughest topics can be presented in a simplified way with the help of animation.

- **Online Resources**

The internet now provides access to unlimited online resources on a variety of topics. Now students are not confined to the course material provided by the respective institutes, instead they can benefit from a wide array of online resources to facilitate understanding. These resources are equally beneficial for the teachers, which in turn, improves the overall quality of education.

- **Administrative Activities**

Administrative activities are also an integral part of any educational institute. Record keeping, attendance and dossiers are some of the few types of records that need to be maintained for all the trainees / students. With digitization record keeping has become convenient and hassle free. Digital record keeping not only saves time and valuable resources, it is also more secure and accessible.

CATI through the journey towards digitization aims to transform itself into a leading aviation institute in the region. This goal cannot be realized unless technology is essentially integrated as part of the system. Recently, CATI implemented an initiative to provide trainees with individual Tabs containing all the requisite course material in digital form, instead of printed copies of textbooks / precis. A bespoke software has also been developed for the record and storage of trainee data. These initiatives are commendable, however, CATI has still got a long way to go before it can truly reap the advantages of digitization.

I sincerely hope that through our continued efforts and commitments we will be able to play our role in the technological revolution to convert this prestigious institute into a modern, digitized, well equipped and at par with other aviation training institutions in the world.

ICAO TRAINAIR PLUS Audit

TRAINAIR PLUS is a co-operative network of training and industry partners who work together to develop and deliver ICAO recognized training through commonly known Standard Training Package (STP). TRAINAIR PLUS is the improved version of its predecessor TrainAir Programme which was launched in 1990. CATI enjoys “Full Member” status of TRAINAIR PLUS.

For ensuring effective compliance and implementation of TRAINAIR PLUS Programme, ICAO conducts “audit” every three “years” of Training Centers of the Member States. Normally, assessment is carried out on-site but outbreak of COVID-19 compelled ICAO to split the assessment into two phases i.e. on-line and on-site. In Phase-1, Mr. Jose Riveros, accredited Assessor of ICAO conducted on-line assessment in November 2020. He visited CATI on 28th and 29th July 2022 to carry out on-site assessment. A four member team headed by Mr. Nawaz Ahmed Sipra, Chief School of ATS & Comm Ops facilitated the process of assessment. The entire audit process was concluded smoothly. As a result of this successful audit, Civil Aviation Training Institute, Hyderabad maintains the status of “**TRAINAIR PLUS Full Member**”.



Mr. Jose Riveros, ICAO Assessor and Mr. Sumair Saeed, Director CATI during closing meeting of the ICAO Audit

Learning from the Experience of Seniors



Mr. Sumair Saeed, Director CATI, welcomes the guests and participants in ESP

As part of its roadmap CATI introduced Experience Sharing Platform (ESP) in the year 2021 which provides an opportunity for learning from the experiences of renowned retired officers from CAA and other notable organizations. This activity is harmonious to the basic purpose of CATI to provide training and personality development of the employees of Pakistan Civil Aviation Authority and aviation professionals from other organizations. In the last six months three ESP sessions were conducted in CATI which were attended by not only the employees of CATI but also a number of officers from HQCAA and locations representing all the echelons of management and leadership as well as numerous retired CAA officers.

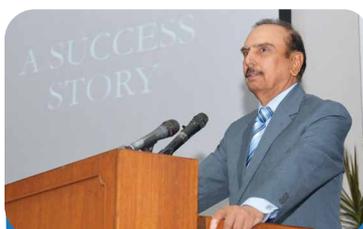


AVM Taimur Iqbal, Additional Director General CAA, reading message of DGCAA on 40th Anniversary of PCAA

Sharing of experience by retired experts in the field serves a good motivational learning for the in-service employees of an organization. This platform is used to share best practices, knowledge, and solutions to common challenges faced by employees at various stages of their service and even in personal lives. ESP allows CAA's current and future leadership to learn from the experiences and rich history of their predecessors. This also provides an opportunity to honour retired CAA veterans and allow them to reunite with their organization. Moreover, retired officers and current CAA leadership is able to acquaint themselves with each other in order to foster a culture of mutual trust and respect, which is a hallmark of eminent organizations.

By the end of December 2022 five ESP sessions have been conducted successfully. The first ESP Session was conducted on 7th December 2021. This date was specifically chosen to coincide this activity with the International Civil Aviation as well as Pakistan Civil Aviation Authority Day. Air Commodore (R) Muhammad Junaid Ameen, EX DGCAA, the Keynote Speaker and Guest of Honour of this session shared his rich experience of more than 40 years and enlightened the house by his words of wisdom. Likewise, the 2nd ESP Session was held on 31st March 2022. Hafiz Zakawat-ul-Hassan (Ex-Director CATI) and Mr. Muhammad Rauhullah (Ex-Director P&D) graced the occasion as Chief Guests and Keynote Speakers. Both the senior retired CAA officers shared their experiences during their service, lives and the lessons learned.

The most recent event i.e. 5th ESP session was held in CATI Auditorium on 7th December 2022 specifically chosen to coincide with the International Civil Aviation Day as well as anniversary of Pakistan Civil Aviation Authority. The Honourable Additional Director General CAA, Air Vice Marshal Taimur Iqbal graced the occasion to represent Director General CAA. At this occasion, he enlightened the audience about his vision regarding aviation and also read the message of Director General CAA Flt Lt (R) Khaqan Murtaza, PAS. He, while welcoming the Chief guest and audience on behalf of the DG CAA also appreciated the efforts of the Director CATI and his team for conducting such sessions that provide opportunities to the youngsters to listen to the accomplished, competent, seasoned and renowned senior officers, understand and learn to educate themselves from their experiences.



Air Marshal (Retd) Muhammad Yousaf Chaudhary Former DG CAA

Air Marshal Muhammad Yousaf Chaudhary, an accomplished professional (a Fighter Pilot), a good leader and former DG CAA, had honoured the 5th ESP session as Chief Guest. He thanked CATI management for inviting him to the ESP for sharing his experiences in PAF, Pakistan CAA and the lesson learned throughout his career and life. He expressed his belief that in order to achieve organizational goal/objective, formation of a good team and protecting and guiding it in a fatherly way in its execution is the quality of a good leader which he practiced to do whenever he got the opportunity. He particularly emphasized that the passion plays a vital role in setting and achieving life goals. For an organization to flourish, merit and just culture are the



Mr. Muhammad Zahid Bhatti, Ex-Director Airworthiness, PCAA

basic ingredients, he added. He continued that a motivated employee is like a soul in any organization who will not only achieve the organizational goals but also ones individual goals. The motivation actually becomes a driving force for an organization to grow as well as maintain its agile and vibrant existence. He further added that self-Motivation (i.e. Professional Pride) is more beneficial and long-lasting than organizational motivations like promotions, pay rises etc. Being DGCAA, he himself practiced and encouraged to support this concept throughout his tenure. He received standing ovation from the audience.

Other notable Guests and keynote speakers including Air Cdre (R) Nasir-Ud-Din, Ex-Director Technical and Muhammad Zahid Bhatti, Ex-Director Airworthiness also shared their experiences and wisdoms during service in PCAA. They attributed the success of organization and individual to discipline, hard work and consistency.





AVM (R) Riaz-ul-Haq former Deputy Director General CAA

Earlier, on 20th September 2022, the 4th session of ESP was held in CATI Auditorium. Air Vice Marshal (R) Riaz-ul-Haq, former Deputy Director General CAA graced the occasion as Chief Guest. Mr. Farooq Rashid, former Director CATI, and Mr. Afsar Malik, former Additional Director Air Transport also spoke to the house. Senior CAA officers, number of retired officers, CATI employees and trainees participated in the event. The personal experiences shared by the keynote speakers was quite motivational and new avenues of learnings from practical perspectives remained the sources of inspiration. The acceptance and appreciation of the words orated by the speakers resulted in warmth and applaud of claps by the audience. The event was a tremendous success.



Mr. Afsar Malik, Ex Additional Director Air Transport

CATI had the honour to welcome Air Vice Marshal Khawar Hussain, Ex-Deputy Director General CAA as Chief Guest and Mr. Khawar Ghayas, Ex-Deputy Director General (Air Navigation Services) also shared their experiences on the occasion of the 3rd ESP session held on 28th June 2022 in CATI Auditorium. The Keynote Speakers shared their successes and challenges they faced in practical life and provided insight and guidance which was a good learning for the audience. The speakers emphasized that a good manager/leader should portray himself as an example and must exhibit all good qualities as Integrity, honesty, selflessness, decisiveness and trustworthy. They tried to adhere to these qualities throughout their service in Pakistan CAA and PAF. The lessons learned in the forum will serve as a beacon not only for the audience but also for the present and future management/leadership of the organization.



Mr. Farooq Rashid, Ex Director CATI

Speaking on the occasion Mr. Farooq Rashid proudly but with distinct tinge of grief shared his forefathers' losses and sacrifices rendered during the Pakistan movement and later their migration to this beloved land. He added that they attached such immense value, pride and honour to the idea of Pakistan

AVM Khawar Hussain delivered a highly motivational speech on work ethos and best management practice drawing on his vast and varied experience of his service in aviation arena. Aviation being the most young field in human history, he expressed his amazement at the astounding progress made by the aviation through innovation,



Air Vice Marshal Khawar Hussain, Ex-Deputy Director General CAA

that any pain and suffering, including losses of lives and property, paled before this dream of millions of Muslims of the area. While pouring his heart out, he emphatically stated that as our forefathers having successfully secured and handed over this great land of promise, opportunity and development to us, it is our foremost responsibility to do whatever is necessary in our power and will to build this country to enviable heights in all fields. He concluded his talk by wishing well to Pakistan and Pakistanis and prayed to Allah for His countless blessings on this nation and country. Long live Pakistan and Pakistaniat.

creativity and above all competition at breakneck speed. Today, in less than hundred years, we are already in space and interstellar travel and at the edge of intergalactic journeys. He stated that this has been possible because of extraordinary dedication and ambitious pioneering spirit of our predecessors. He emphasised that we need to adopt this spirit in our daily life to reach the next level of excellence while maintaining healthy work and family life balance. He urged for the need to move out of one's comfort zone to confront new challenges as that's the only way to move forward at quick pace. He concluded that the goal of life should not be 'to become a successful person' but 'to become a useful person for the society'.



Participants of ESP Session 4

As an integral part of the ESP, CATI has set a tradition to remember and pay tribute to the retired PCAA officers who have left this world for their eternal abode. The participants paid homage and offered Fatiha for the following departed souls.

- (Late) Air Marshal (R) Khalid Choudhry, Ex-DG CAA
- (Late) Mr. Manzar Jamal, Ex-Deputy DG (Reg)
- (Late) Mr. Sohail Ahmed Chohan, Ex-Deputy DG (ANS)
- (Late) Mr. Ghulam Murtaza, Ex-Principal Director (Reg)
- (Late) Mr. Shahid Raza, Ex-Director CATI (The pioneer Director of CATI)
- (Late) Mr. Saleem Athar, Ex-Director Airspace & Aerodromes Regulations
- (Late) Mr. Liaquat Ali Shahzad, Ex-Director Operations
- (Late) Mr. Nayyar Nawaz Khan, Ex-Sr. Additional Director Airworthiness
- (Late) Mr. M Yaqoob Satti, Ex-General Manager ATS
- (Late) Mr. Safer Iftikhar Jafri, Ex-Additional Director Com-Ops
- (Late) Mr. Nazim Uddin Ansari, Ex-Sr. Joint Director HR
- (Late) Mr. Ahmad Mujtaba, Assistant Director ATS
- (Late) Dr. Pervaiz Habibullah, Ex-Director CATI
- (Late) Capt. Aftab Hussain, Ex-Director AT&ER

At the end, Director CATI thanked all the guests and presented shields to the Chief Guests, the keynote speakers, CAA officers who joined from HQCAA/locations and other retired PCAA officers. He also awarded Appreciation Letters and cash prizes to high performing employees of CATI.

These experience sharing sessions are planned quarterly. The 6th ESP session will be held in the month of March 2023.

Continuing Professional Development

Pakistan Engineering Council (PEC) being a professional body for accreditation of engineering education and regulation of engineering profession in Pakistan, manages through its licensed Professional Engineering Bodies (PEBs) to professionally develop and groom the engineers registered with PEC. For this purpose under Continuing Professional Development (CPD) program and in collaboration with its licensed PEBs, PEC conducts short courses, trainings, seminars, workshops, research activities etc. Since becoming a registered PEB in Feb 2022, CATI has conducted 02 seminars of one day each in the months of July and Sep 2022 and a two day workshop was held on 21st and 22nd December 2022 on the title: "Present and future challenges with regard to innovations and technological advancements in aviation". Engr. Vikram Singh Sodha, Ex-Director P&D CAA and Dr. Saleem Raza Samo, Vice Chancellor Quaid e Awam University of Engineering Sciences and Technology Nawab Shah graced the occasion as Chief Guests on Day-1 and Day-2 respectively. The workshop started with recitation of Holy Quran followed by welcome address of Director CATI, Engr Sumair Saeed.



Engr. Vikram Singh Sodha,
Ex-Director P & D (Chief Guest, Day-1)

Mr. Sodha appreciated the efforts of CATI Management on managing such a mega event in collaboration with PEC. Referring to numerous achievements (including mega projects like construction of Karachi, Lahore and Islamabad airports) by engineering functions of PCAA in designing, development and operation of many facilities at airports as well as in the air for safe and smooth air transportation/aviation activities in the country, he avowed the engineering community in general as the best managers and good organizers with a particular applaud to the engineers of PCAA. He urged upon the top management of PCAA to fully utilize the talent and skills of young engineers in up-coming projects which will not only groom them professionally but will also develop their management acumen. He thanked Director CATI for honouring him to be the Chief Guest at this August forum.



Speaker: Engr. Muhammad Adnan (AdId ES E/M)
Topic: Current & future challenges of aviation sector

The speaker mainly focused on global priorities set by aviation communities and International Civil Aviation Organization (ICAO) to address the present as well as future challenges to the aviation industry. His discussion covered three areas: (a) Introduction to aviation industry, (b) present challenges to aviation industry, and (c) future challenges to aviation industry. At the end, the speaker presented a case study regarding "Installation of Grid Connected Ground Mounted 4MWp Solar PV Plant at Jinnah Int'l Airport (JIAP) Karachi".

In the first place, a full day CPD Seminar was held on July 21, 2022 with the theme of "Engineering / Maintenance in Aviation Industry". Syed Raghieb Abbas Shah, the former chairman of the WAPDA, graced the seminar as the chief guest to represent Chairman PEC. However, Engr. Muhammad Najeeb Haroon, Chairman PEC spoke to the house through video link alongwith senior management of PEC.



1st CPD Seminar held on 21st July, 2022



Speaker: Engr. Kashif Ali (Joint Director ES E/M)
Topic: Ground based augmentation system and RNP

The speaker briefly talked about innovations in aviation along with initiatives taken by ICAO. He also discussed solutions to overcome challenges faced in aviation especially regarding airspace congestion and inclement weather operations. In this regard, Required Navigation Performance-Authorization Required (RNP-AR) was discussed in details with a comprehensive case study on implementation of the same at Skardu Airport to increase airport accessibility through all-weather operations.



Speaker: Arch. Osama Khan (Sr. Joint Director Architecture)
Topic: Technological advancements in architecture

The speaker talked about the latest architectural technologies that enabled the architects to develop complex but at the same time cost effective, energy efficient and sustainable designs of buildings by minimizing the human effort hence drastically reducing the time taken in planning, design and construction. Parametric / Computational Design, Building Information Modelling, Generative Architecture, Virtual Reality, Augmented Reality, 3D Printing Architecture are some of examples of these technologies.



Speaker: Engr. Abdul Mohaymin Sahito (SAD Civil)
Topic: Challenges & innovations in aviation

Mr. Sahito, In his presentation, explains that despite Aviation's primitive beginnings, the industry has become the backbone of Global Development today. It is forecasted that by 2026, aviation will contribute \$1 trillion to world GDP and the volume of aviation activities will be doubled by 2030. He further added that having tremendous growth and contributions in today's society the aviation industry has its own fair share of challenges. From battling recessions to government regulations and terrorism to labor shortage and many more, there are innumerable issues this sector has been facing in recent times. The main focus of discussion remained on global air-traffic and airport congestion, the demand for Infrastructure upgradations, the adverse effects of Climate Change, depleting fuel resources, ever-increasing security threats, and the need to keep the air-travel safe. The discussions were aided with case studies of Chicago O'Hare International Airport, Hong Kong International Airport, and Charles De Gaulle Airport Paris.



Participants of Day-1 of CPD

On the occasion, 8 speakers gave presentations on various topics related to the theme. The Seminar was attended by several Vice Chancellors, Deans, and Chairs of engineering universities, engineering professionals from industry including the CAA, airline industry, PAF, PSQCA, NHA, PWD, HESCO, SSGC, TEVTA as well as number of engineers from across the country.

The second day of the seminar also started with recitation of Holy Quran followed by welcome note and a brief summary of Day-1 activities by Director CATI.



Prof. Dr. Saleem Raza Samo, Vice Chancellor – QUEST Nawabshah (Chief Guest, Day-2)

Dr. Samo appreciated CATI's management for organizing such events and congratulated on successful conduct of this workshop. Talking to the engineering community he emphasized that the personality grooming and professional development on a continuous basis is a key to become a good engineer. He also talked about various avenues and areas of interest for mutual collaboration between QUEST and CATI. He proposed that both the institutions step forward to have an MoU for long lasting beneficial relationship. At the end he thanked Director CATI for giving him opportunity to meet the engineers of varying disciplines and honouring him as Chief Guest.



Engr. Zahid Bhatti (Ex- Director Airworthiness)
Topic: Sustainable aviation fuels

The presentation was on the development and importance of sustainable alternative aviation fuels. He briefed the audience about aviation fuels and the impact of aviation on the climate due to the increase of CO2 emissions in the atmosphere. He discussed climate change in Pakistan as well. The audience was updated on the efforts being made by the international community under the ICAO umbrella for the reduction of emissions. The philosophy of Sustainable Aviation Fuels (SAF) production, types of SAF and their environmental benefits, its sustainability criteria and challenges were the core of the presentation. The status of SAF in Pakistan, suggestions for the way forward and a road map were also shared with the forum.



Engr. Asad Khan Niazi (Joint Director CNS)
Topic: Introduction to CPDLC Engineering & Operations

The speaker told the audience that the advent of Controller-Pilot Data Link Communications (CPDLC) system is a step forward to a more effective air traffic management with lesser errors as compared to existing means of voice communication. CPDLC, a two-way data-link system is considered a future of communication between Air Traffic Controllers and Pilots for exchange of communication management and clearance/information/request messages flashed on a Flight Deck Visual Display (FDVD) to ensure flight safety. While explaining its engineering and operation aspects he added that the CPDLC is being implemented globally and currently it is passing through different stages of implementation.



Speaker: Engr. Sahil Ali Khan (JD Airworthiness)
Topic: Impact of 5G in aviation

The speaker gave insight on impact of 5G in aviation. While talking about the benefits and global adoption of 5G technology in mobile telephony, he highlights the problems being faced by aviation industry. The use of this technology is a potential threat for radio altimeters installed in the aircraft to measure its height of the aircraft. At the same time he mentioned that due to the large number of affected aircraft, aviation authorities and spectrum regulators around the world are working together to mitigate the hazard.



Speaker: Engr. Syed Irfan Haider Gardezi (AdID DAAR)
Topic: Ground based Navigation system GNSS

The presentation was focused on technical aspects of Global Navigation Satellite System (GNSS), benefits and applications in aviation industry. The speaker elaborated that the GNSS technology provides Positioning, Navigation and Timing (PNT) applications and it has already laid foundation for Performance Based Navigation (PBN), Automatic Dependent surveillance-Broadcast (ADS-B), Automatic Dependent Surveillance-Contract (ADS-C) and Ground-Based Augmentation System (GBAS).



Engr. Bisma Sohail (Sr. Assistant Director APS RFFS)
Topic: ARFF – saving lives through innovation

The Speaker emphasized that over the past 10 years, the technological advancements in aviation arena have been shaping and changing the overall landscape of aviation which is making it more efficient, agile and sustainable. She also informed that Aircraft Rescue & Firefighting (ARFF) is a mandatory ICAO requirement whose principal objective is to save lives in the event of an aircraft accident or incident. She further added that provisioning of adequate means of dealing promptly with an aircraft accident or incident is of the prime importance. She discussed about various technologies that are used in ARFF like Fire vehicles, Fire Extinguishing Agents, Thermal Imaging Cameras, and Smoke Ejecting Fans etc. Effective training of firefighting personnel especially in live fire drills helps them to react in emergency situations and control fire timely. The training tools include Fire Screens and Simulators which create a realistic emergency environment to react upon by ARFF trainees.



Participants of Day-2 of CPD

The 2nd full day CPD seminar was held at CATI on 27th September 2022 on the topic "Engineering Systems and their Management at the airports". Dr. Muhammad Aslam Uqaili, ex-Vice Chancellor of Mehran University of Engineering and Technology, Jamshoro, honored the occasion as Chief Guest. The audience got the opportunity to listen to seven speakers on various engineering systems used at airport to keep the aircraft operation safe, smooth and orderly.

2nd CPD Seminar held on 27th September, 2022



Senior Additional Registrar PEC in his presentation talked about the roles of PEBs and their responsibilities. Mr. Muhammad Ashraf, Ex-Director Engineering Services enlightened the audience about the civil infrastructures and systems used at airports and other allied installations at airports. The engineering community from diverse industries and national engineering segments participated in the event including the students of engineering universities.

Stepping Forward – CATI’s Collaboration with Universities

Civil Aviation Training Institute (CATI) not only imparts training in pure aviation related disciplines but at the same time training on allied subjects such as Engineering, IT and Management are also imported to CAA employees. In pursuance of the strategic vision of CATI and in accordance with the CATI Roadmap, CATI is aiming to enter into a long-term mutually beneficial relationship with prestigious educational Universities and Institutions. CATI will be able to benefit from the reputation of these institutes and this interaction will also assist CATI to further enhance its training acumen and vice versa.

FOREIGN INSTITUTES:

- Embry Riddle Aeronautical University, USA
- Singapore Aviation Academy
- IT- AEREA, Spain

PAKISTANI UNIVERSITIES & INSTITUTES:

- COMSATS University
- National University of Science & Technology (NUST)
- WAPDA Staff College Lahore (WASC)
- Bahauddin Zakariya University, Multan
- Agriculture University, Tandojam
- Nadirshaw Eduljee Dinshaw (NED), Karachi
- Foundation for Advancement of Science and Technology (FAST) NUCES
- Karachi University
- PIA Training Centre
- SZABIST Hyderabad
- Quaid-e-Awam University (QUEST), Nawabshah
- Institute of Business Administration (IBA), Sukkur
- University of Peshawar
- University of Engineering & Technology (UET) Peshawar

- Ghulam Ishaq Khan Institute of Engineering Sciences & Technology (GIKI)
- University of Wah
- University of Engineering & Technology (UET), Taxila
- Air University, Islamabad
- PAF Academy Islamabad
- Quaid-E-Azam University
- Punjab University
- University of Management & Technology (UMT) Lahore
- Superior University Lahore
- University of Engineering & Technology (UET) Lahore
- Pakistan Audit & Account
- Sindh University
- Mehran University of Engineering & Technology (MUET) Jamshoro
- University of ART & Design Jamshoro
- (SGS) KARACHI
- IBA Karachi
- PSQ CA, Karachi
- Habib University Karachi
- Balochistan University of IT & Management Science, Quetta.

The response received so far from various institutes is very encouraging and it is hoped that other universities /institutes will also show a positive intent towards this initiative.

Independence Day Celebrations in CATI

Independence Day celebrations in Pakistan are of great importance as they commemorate the country's freedom. The day is celebrated with patriotic fervor and national pride.

Independence Day also serves as a reminder of the sacrifices made by the nation's founding fathers and the countless individuals who fought for the country's freedom. It is a day to honor their legacy and to remember the struggles that were faced to achieve independence.

Like every year CATI continued its tradition of celebrating the Independence Day with utmost enthusiasm and passion. In connection with the Independence Day celebrations 2022 CATI, Hyderabad planned various activities to honor, promote and appreciate the unique cultural, political, and historical aspects of our country.

The Day activities started with the assembly of Staff and their families to mark the Flag Hoisting ceremony. The honorable Director CATI hoisted the National Flag followed by prayers for the prosperity of the homeland. The Worthy Director CATI also paid homage to the sacrifices made by the martyred soldiers & their families. He emphasized that the freedom that we enjoy today are the result of the sacrifices made by these brave men and women.

Furthermore to instill a sense of pride and belonging for country in our children, various activities were planned which included quizzes, national Anthem signing competition etc. The inspirational speeches of Quaid-e-Azam, Allama Iqbal, and other national heroes were also played in the auditorium. Employees of CATI, their families and school children fully participated in these activities. The celebration of Independence Day not only promoted nationalism in children but also gave them insight about the country's achievements and past glory. At the end of these activities prizes were distributed among the children.



Plantation Day – MOU with Forestry Department

In line with the Govt of Pakistan's initiative for greener Pakistan, on 4th July 2022, CATI and Sindh Forest Department has entered into an MoU for Urban Forest Tree Plantation under "Restoration of Riverine, Inland, Mangroves, Dry land and Urban Eco Systems of Sindh Province.

Under this MoU, the Sindh Forestry Department will plant around 15,000 (fifteen thousand) trees at no cost on the fallow land of CATI.

Activity on the plantation has already started. As a first step, on 6th July, Sindh Forestry Department has planted 4,500 saplings / trees of various species including Moringa, various fruit trees like Guava, Falsa, Jamun and many other plants. In future this activity will progressively be enhanced upto 45,000 trees plantation. CATI is fully determined to provide the required land, water and supervisory facilities to the saplings. Of late, Forest Department has provided 100 Papaya saplings which are planted alongside the Auditorium, School of ATS & Comm Ops and School of Electronics Engineering & IT. Through the plantation of Papaya, besides the benefit of getting fresh fruit, the facade and outlooks of schools would be enhanced and will give more scenic view.



News and Snippets:

• Eid Milad Un Nabi – 9th October 2022,

CATI observed EID Milad Un Nabi with utmost respect and devotion. On this holy occasion, a Mehfil Milad was held, during which religious scholars spoke and in an effort to inspire attendees to commit to changing their lives in order to better follow the Sunnah and divine commands. Participants also recited Hamd-o-Naat at the occasion.

• 100 years of Air traffic Control – 20th October 2022

The 100th anniversary was celebrated worldwide.

On the occasion of the weekly Inspirational Media platform, CATI organized a gathering in the auditorium where instructors, CATI management, and staff members, as well as ATC trainees and trainees from other schools, attended. Director CATI gave the keynote address, highlighting the significance of the occasion and the crucial role that air traffic controllers play in maintaining the safety of our skies. Additionally, Mr. Asad Moosa Sr. Joint Director ATS, an instructor at the ATS & Com Ops School, shed light on the background of ATC. He went into greater detail about how air traffic controllers function and emphasized the successes of Pakistan Air Transport services. Overall, it was a learning experience and served as inspiration to the young ATC officers.

• International ATSEP Day – 12th November 2022

This day is observed annually as International Air Traffic Safety Electronics Personnel Day (ATSEP) around the world. CATI celebrated International ATSEP Day at the Inspiration Media Platform in the auditorium to recognise Civil Aviation Electronics Engineers and Technicians. Director of CATI spoke on the occasion in the honour of the hard work of Civil Aviation Electronics Personnel. Engr. Hashim Hussain, Sr. Joint Director CNS, Chief School of Electronics Engineering and IT, discussed in length about the CNS facilities available at airports throughout Pakistan, the work of CNS engineers, and played some motivational videos to inspire young Electronics officers and trainees.

• Health Awareness Session - 29th December 2022

Dr Muhammad Maroof Khan, Senior Deputy Director Medical Services CATI organized this valuable session to enhance the health awareness amongst the employees of CATI. On the occasion, Consultant / Senior Cardiologist Dr. Shoukat Memon explained about different types of hypertension, provided awareness regarding high blood pressure and share the knowledge of managing hypertension. Whereas, Consultant / Senior Psychiatrist Dr. Shah Nawaz MK Dal delivered very informative lecture about mental health and drug abuse as well as shared concern about mental health issues. He provided helpful counselling to change daily habits and how to prevent oneself from these diseases by adopting healthy life style.

Contact:

NAWAZ AHMED SIPRA - Chief Editor

Civil Aviation Training Institute, Hyderabad, Pakistan

Office: 022-9260326, 022-9260310-19 Ext: 280

Mobile: 0302-8221309, email: cas@caapakistan.com.pk

Designed by: OKTOPUSMG