

दीक्षांत समारोह 2022 Graduation Function 2022

Technical Study Tours ...blend of knowledge with fun

Technical study tour has been an important event of the OCES programme for years, which was interrupted for last two years due to the pandemic. This year, the technical study tours were organized for three different locations, viz. Indore (RRCAT), Kota (RAPPS, HWB & NFC) & Kalpakkam (IGCAR, BHAVINI & MAPS). It was a great opportunity for the Trainee Scientific Officers to witness some of the reactors, technologies and facilities which were taught to them in their courses.



Apart from this, it helped them in obtaining an overview of the DAE units and interacting with the experts working in various fields on these sites. A very peculiar feature of these study tours is that multiple disciplines are grouped together and sent for a common visit schedule. This develops a strong bonding among the trainee officers, a bond without boundaries. They can gain the knowhow of the same facility/ technology from the viewpoint of different disciplines (Chemical Engineer, Physicists, Mechanical Engineer, etc.) When working on multi-disciplinary projects, the broader viewpoint developed during the visits augments their capabilities in ways that could expedite the progress of the task at hand. Needless to mention that loads of fun on the tour is an added bonus. The study tour is invaluable so much so that trainees look forward to it as it gives an opportunity to feel live projects which enhances their confidence.



Plant Visit

In order to provide the trainees with real time experiences of various operations of the Nuclear Fuel Cycle, a visit to reactor sites and other important facilities is carried out. This provides an opportunity to witness the complex state-of-the-art systems and technologies involved in the operations of nuclear installations and associated plants. The current batch of trainees visited various facilities at Tarapur Atomic Power Stations TAPS 1,2,3,4 operated by Nuclear Power Corporation and to BARC

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Facilities involved in fuel fabrication, fuel reprocessing, spent fuel storage, waste management etc. Senior scientists, faculty members and support staff accompanied the trainees. At the site, trainees are briefed by a technical expert of the facilities and operating plants and shown the salient features of the main and auxiliary system.

The sheer magnitude of the efforts put by the scientists behind the installations and several decades of their faultless operation are something that the trainees felt highly inspirational to have an everlasting impression in their minds to motivate them to perform well in the future in the service of the nation.

Evening Lectures

BARC Training School organizes special evening lectures by eminent person having rich and varied national and international experience/exposure in the field of atomic energy and the zeal to teach and share that repository¹ of knowledge, which lies beyond the realms of books. These lectures are of great significance to create interesting and awareness of the developments in different areas of Science and Engineering and to provide an opportunity for the Trainees to learn and interact with these eminent personalities having an in-depth experience. These lectures are organized beyond office hours so that employees working in any unit of DAE located in Mumbai and Navi Mumbai may attend such lectures

Date	Speaker	Topic
09-03-2022	Dr. R. B. Grover	Academic Research is necessary, but not sufficient

Evening Lectures



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Mini Projects

In order to provide a glimpse of the exciting work waiting ahead in their careers, all trainees undergo a miniproject work of 10 weeks duration in an ongoing mission. Working with domain experts in an interactive and informal manner is aimed at providing the necessary grooming as well as hands on invaluable experience. The trainees are then asked to compile a report and defend their work in the presence of an expert panel. The project guides comprise a wide cross section of scientists and technologists from BARC as well as other DAE units in Mumbai (Annexure 5)

Soft Skills Workshop

With the increasing need for professionalism, DAE offers challenging opportunities to bright youngsters to excel in the frontline areas of research and development of cutting edge technologies and science. BARC TS has ventured into prestigious "Executive Excellence program" to promote development of outstanding professionals who add value to organization and society. The need of the hour is to churn out groomed Professionals with expertise in Scientific Knowledge and proficiency in Soft Skills.



Soft skills workshop in progress





Soft skills workshop in progress



The transition from college to a Professional life is a big adjustment for many Trainees at BARC Training School. Expectations and responsibilities in the workplace are very different than those in college. There are unspoken nuances and social norms that many graduates are completely unaware of and adjusting to a professional environment can be extremely challenging as also traumatic to a few. The Executive Excellence program acted as a bridge to achieve Professional competencies with a thorough understanding and effective implementation of their behavioral and Soft Skills. The above course outline enabled the students to improve their self assuredness and enhance confidence in interpersonal skills. The course catered to the complete professional grooming of the participants via activity based learning and real time business simulations.

The program was executed in five batches and all participants were curious, participative, and highly energetic. Training sessions covered areas like Communication Skills, Presentation Skills, Creativity & Innovation, Time Management and Work Ethics. Training was attended by 101 trainees from 12 different disciplines. The trainees actively participated in the group activities and presentations. The program structure, content and method of delivery was well received by the participants, which was expressed in the feedback forms. Presenting ideas clearly and communicating with impact helped build confidence, while the ethical leadership part was appreciated most it was felt that it will bring value for the organization. The participants were enthusiastic and enjoyed the discussing and presenting their ideas.

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Workshop on Administrative Practices and Procedures and Nuclear Security

On completion of the training, the young officer has to work harmoniously with all wings of the organization, within the framework of all the rules and regulations of the government. With an aim of ensuring that the trainees are able to put their best foot forward and execute the assigned tasks in this regard, a three-day workshop on 'Administrative Procedures' is conducted at the end of their training programme. The need for awareness on aspects of nuclear safety and security in DAE is of paramount importance for all employees of the organization. Effective nuclear safety and security culture is characterized by compliance with rules, regulations and procedures, and also constant vigilance and a proactive questioning attitude on the part of all personnel. In an attempt to ensure the above and ingrain a sense of nuclear safety and security amongst the young trainees, a workshop on Nuclear Security was conducted for the benefit of the young trainees. The list of topics covered is given below:

Title of Talk	Name of the Speaker
Relevance of nuclear power in a decarbon energy scenario and the radiation phobia	Dr A K Nayak Head, NCPW, DAE
Career Development & Growth in DAE	Shri G Venkatesan Director, ATI, DAE
BARC Safety Framework	Smt Kavita Dixit Head, BSC Secretariat, BARC
Financial Management in Government	Shri AVS Subrahmanyeswarudu Dy. Controller of Accounts, BARC
Nuclear Security Overview	Shri C D Ghag Chief Security Officer, BARC
Nuclear & Radiological Emergency	Dr D K Aswal Director, HS&EG
Project Management at DAE	Shri R Sharan ED (P-PHWR), NPCIL
An Overview of Contributory Health Services Scheme (CHSS)	Shri M Jagannath APO, CHSS, BARC
Online Procedures and Systems	Smt Renuka Ghate Computer Division, BARC
Awareness, Knowledge & Healthy Lifestyle	Dr (Smt) A J R Khandekar Head, Medicine Department, Medical Division, BARC
Human Psychology	Dr Saumitra Nemlekar Consultant Psychiatrist, Medical Division, BARC
M.Tech / PhD Programme of HBNI	Dr. Dilip K. Maity Associate Dean, HBNI
Purchase Procedures	Dr G Padmakumar Director (P&S), DPS
Scientific Ethics	Shri Manoj Singh Head, Information Resource Management Section, SIRD, BARC
Cyber Security	Shri Gigi Joseph Chief Information Security Officer, CD, BARC
RTI Act and CCS (Conduct) Rules	Shri Niteen Shende APO, HRDD, BARC
Fire Prevention – Procedures & Demonstration	Shri R S Agrahari Dy. Chief Fire Officer, BARC