

Report on Regional STEM Teachers Training Workshop to Develop Research-based Pedagogical Tools (RBPTs)
At HRDC, Integral University (23rd October to 25th October, 2018)

HRDC Integral University had organized a Three day Regional Science, Technology, Engineering & Mathematics (STEM) Teachers Training Workshop to Develop Research-based Pedagogical Tools (RBPTs) for College Science Teachers, funded by DST, MHRD, GoI, and organized by Centre of Excellence in Science and Mathematics Education (CoESME), IISER Pune at Integral University campus. This was a part of a series of workshops, designed to introduce teachers to Research-based Pedagogical Tools (RBPTs) that focus on process of science rather than information, and help students develop critical thinking and problem-solving abilities.

Fifty five Teachers from twenty one educational organizations from all science disciplines, technology, engineering and education, teaching UG or PG level courses in Uttar Pradesh and adjoining areas participated in this workshop.



During the Inaugural session Prof. S. Aqeel Ahmad, Director HRDC warmly welcomed all the Delegates, Organizing Team and Participants, and emphasized the contribution of such workshops in the field of higher education. Mrs. Shanti Pise, Programme manager IISER, Pune, Guest of Honour of the session mentioned the importance of this workshop at Higher Education Level. She explained how Process is more important than product in teaching learning. Dr. Charu D. Rawat, Lead trainer from Ramjas College, University of Delhi as a Guest of Honour, explained why these workshops are conducted, and discussed about few latest techniques of teaching learning process. At the end Prof. Aqil Ahmad, Acting Vice-Chancellor, Integral University and Chief Guest of the session explained the importance of Communication Skills and Content to the audience and discussed about the depth and quest of knowledge.

The participants from different STEM streams were divided into four group's i.e. Life sciences, Physics, Mathematics and Chemistry. Life sciences sessions were taken by Dr. Charu D Rawat and Manohar G M. (Government Science College, Bangalore), Physics session was taken by Dr. Alka Garg, Gargi College, Delhi; Mathematics by Mrs. Shanti Pise and Chemistry by Dr. Ashish S Uzgare, Wilson College, University of Mumbai. All the participants were involved in different activities like poster preparation and display on the topic Ideal students (qualities of ideal students like interests, attitudes, work habits and ambitions of a perfect student), Paper plane activity, Panda activity (teaching tools for learning), Basics of creating effective RBPT was also

explained and finally a preparation of RBPT poster based on their own choice, and presentation of their groups RBPT in front of all the participants were made. Mrs. Shanti Pise also explained about different funding opportunities for all the teachers.



Program ended with the valedictory session in which Prof Basheer A Khan, Advisor to Hon'ble, Chancellor, Integral University, Chief Guest of the session emphasized on the history and importance of teacher training in higher education, Prof A K Saxena, Dean, Faculty of Commerce & Business Management, Integral University, Guest of honor elaborated on impact of the posters created on his mind and applauded the participants on their commendable effort throughout the workshop. Mrs. Shanti Pise congratulated the Organizing committee regarding tremendous efforts made by team led by Prof. Syed Aqeel Ahmad, Director, HRDC, IU and how participants from a regional workshop, Ranjan Kumar Asst. Prof., Dr. Satya Praksh Singh Assoc. Prof. and Anup K Sirbaiya Asst. Prof. Faculty of Pharmacy, made efforts and finally made it possible and organized the workshop at Integral University which was completed with grand success. Summary of all the sessions was presented by Mr. Ranjan Kumar. Prof. Zishan Raza Khan Deputy Director HRDC, proposed the vote of thanks after certificate distribution. The program was anchored by DrMinaxi B Lohani Assoc. Prof. Faculty of Science and Dr Anuradha Mishra Assoc. Prof. Faculty of Pharmacy, managed the sessions effectively.





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