

PROFESSIONAL DEVELOPMENT WORKSHOPS

National Center for Mathematics (An HEC Project)

TEACHING UNIVERSITY ALGEBRA

November 6 – November 8, 2006

This Workshop is organized in collaboration with
National University of Computer and Emerging Sciences

VENUE: School of Mathematical Sciences
68-B, New Muslim Town, Lahore

PROGRAM

MONDAY, November 6, 2006

9.0.9.30 Registration.
09.30 -10.00 Welcome address and presentation of the workshop.
Dr. A.D.R. Choudary, Director General SMS.

FIRST SESSION. Chairman: Dr. Mircea Becheanu.

10.00 -10.50 Present state of Teaching Algebra at Pakistani Universities.
Dr. S. M. Husnine.
Discussion.

10.50 -11.20 Tea/Coffee Break.

11.20 - 12.10 Applications of Fermat's Little Theorem in Cryptography
Dr. Dorin Popescu.
Discussion.

12.10 -13.00 Ring Theory (invited lecture with SMS students). Discussion.
Presented by Dr. Muhammad Aslam Chaudhry

13.00-14.00 LUNCH.

SECOND SESSION. Chairman: Dr. Muhammad Nawaz.

14.00-14.50 Ring Theory in University Algebra. Discussion.
Dr. Tiberiu Dumitrescu.

15.00-15.50 Open discussion. The Curricula of Algebra at Various
Universities. Moderator: Dr. Asif Ali.

16.00-16.50 Algebra at the Department of Mathematics QAU, Islamabad.
Dr. Tariq Syed Shah.
Discussion.

16.50-17.30 Tea party and free open discussion.

TUESDAY, November 7, 2006

(This day all activities will take place at National University of Computer and Emerging Sciences)

THIRD SESSION. Chairman: Dr. Dorin Popescu.

- 09.00-10.00 Algebra at the Department of Mathematics, GCU Lahore.
Dr. Muhammad Aslam Chaudhry.
Discussion.
- 10.00-10.50 Open discussion. Improving Algebra Curricula at
Pakistani Universities. Moderator: Dr. Karamat Hussain Dar.
- 10.50-11.20 Tea/Coffee Break.
- 11.20-12.10 Groups and groups of permutations (invited lecture with SMS students).
Discussion.
Presented by Dr. Mircea Becheanu.
- 12.10-13.00 Polynomials in University Algebra. Discussion.
Dr. Vakhtang Lomadze.
- 13.00-14.00 LUNCH

FOURTH SESSION. Chairman: Dr. Ali Dino.

- 14.00-14.50 Modern Software in Computational Commutative Algebra. Working
with Algebra Software in S.M.S Computer Laboratory.
Dr. Marius Vladioiu.
- 15.0.15.25 Algebra at Lahore College for Women University.
Ms. Raheela Shehnaz. Discussion.
- 15.25- 15.50 Algebra at University of Engineering and Technology.
Mr. Iqbal Bhatti. Discussion.
- 16.00-16.50 Open discussion. Use of computers in teaching University Algebra.
Moderator: Dr. S.M. Husnine.
- 17.00- Dinner offered by National University of Computer and Emerging
Sciences.

WEDNESDAY, November 8, 2006

FIFTH SESSION. Chairman: Dr. Shahid Siddiqui.

- 09.00-10.00 On the notion of determinant in College Linear Algebra. Discussion
Dr. Angel Popescu.
- 10.00- 10.50 Open discussion. Connections between Algebra and other Mathematical
Areas in University Education.
Moderator: Dr. Barbu Berceanu.
- 10.50-11.20 Tea/Coffee Break.
- 11.20-12.10 Invited lecture to SMS students. Presented by Dr. Imdad Hussain.
Discussion.
- 12.10- 13.00 Algebra at the Karachi University.
Dr. Ali Dino/ Mr. Syed Amir Ali
Discussion
- 13.00 -14.00 LUNCH

SIXTH SESSION. Chairman: Dr. Razia Sultana.

- 14.00-14.50 Algebraic Equations and Galois Theory.
Dr. Cristodor Ionescu.
Discussion.
- 15.00-15.30 Algebra at the University of Punjab.
Dr. Shahid Siddiqui.
Discussion.
- 15.30-16.00 Algebra at Balochistan University of Information Technology and
Management Sciences
Dr. Muhammad Nawwaz
Discussion.
- 16.00-16.30 Final conclusions regarding some problems discussed /considered during
workshop. Conclusion Group.
- 16.30- 17.00 Closing meeting and awarding of participant certificates.
Dr. A.D.R. Choudary
- 16.50– 17.30 Tea party and free open discussion.

PARTICIPANTS

1. Dr. Shahid Siddiqui: Math. Department, University of Punjab.
2. Dr. S.M. Husnine: Director, National University of Computer and Emerging Sciences, Lahore.
3. Dr. Muhammad Aslam Chaudhry: Math. Department, GCU Lahore.
4. Dr. Karamat Hussain Dar: Math. Department, GCU Lahore.
5. Dr. Muhammad Nawaz: Baluchistan University of Information Technology and Management Sciences.
6. Dr. Imdad Hussain: University of Baluchistan.
7. Dr. Ali Dino: Math. Department, University of Karachi.
8. Dr. Syed Amir Ali: Math. Department, University of Karachi.
9. Dr. Tariq Syed Shah: Math. Department, Quaid-e-Azam University, Islamabad.
10. Dr. Asif Ali: Math. Department, Quaid-e-Azam University, Islamabad.
11. Dr. Razia Sultana: Math. Department Baha-Ud-din Zakria University, Multan.
12. Ms. Raheela Shehnaz : Lahore College for Women University, Lahore.
13. Mr. Iqbal Bhatti: University of Engineering and Technology, Lahore.
14. Dr. Dorin Popescu : University of Bucharest.
15. Dr. Mircea Becheanu: University of Bucharest.
16. Dr. Tiberiu Dumitrescu: University of Bucharest.
17. Dr. Marius Vladoiu: University of Bucharest.
18. Dr. Barbu Berceanu: Romanian Academy, Institute of Mathematics.
19. Dr. Cristodor Ionescu: Math. Institute of Bucharest.
20. Dr. Angel Popescu: Techn. Inst. Civil Eng. Bucharest.
21. Dr. Vakhtang Lomadze: Math. Institute of Tbilisi.
22. Mr. Sarfraz Ahmad, SMS ,GCU Lahore.
23. Mr. Imran Anwar, SMS ,GCU Lahore.
24. Ms. Sobia Sultana, SMS ,GCU Lahore.
25. Mr. Asim Naseem, SMS ,GCU Lahore.
26. Mr. Sardar Muhib Ali Khan, SMS ,GCU Lahore.
27. Mr. Azeem Haider, SMS ,GCU Lahore.