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In the last thirty years or so, the need to address the challenges of teaching and learning mathematics at university level has become increasingly appreciated by university mathematics teachers, and beyond, by educational institutions around the world. Indeed, mathematics is both a condition and an obstacle to success for students in many educational programmes vital to the 21st century knowledge society, for example in pure and applied mathematics, engineering, natural sciences, technology, economics, finance, management and so on. This breadth of impact of mathematics implies the urgency of developing research in university mathematics education, and of sharing results of this research widely. This book provides a bespoke opportunity for an international audience of researchers in didactics of mathematics, mathematicians and any teacher or researcher with an interest in this area to be informed about state-of-the-art developments and to heed future research agendas. This book emerged from the activities of the research project INDRUM (acronym for International Network for Didactic Research in University Mathematics), which aims to contribute to the development of research in didactics of mathematics at all levels of tertiary education, with a particular concern for the development of early-career researchers in the field and for

dialogue with university mathematicians. The aim of the book is to provide a deep synthesis of the research field as it appears through two INDRUM conferences organised in 2016 and 2018. It is an original contribution which highlights key research perspectives, addresses seminal theoretical and methodological issues and reports substantial results concerning the teaching and learning of mathematics at university level, including the teaching and learning of specific topics in advanced mathematics across a wide range of university programmes.

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Unit-I 0. Historical Background 1-4

1. Groups and Their Basic Properties 1-65

2. Subgroups 66-80

3. Cyclic Groups 81-93

4. Coset Decomposition, Lagrange ' s and Fermat ' s Theorem 94-113

5. Normal Subgroups 114-125

6. Quotient Groups 126-131

Unit-II

7. Homomorphism and Isomorphism of Groups, Fundamental Theorem of Homomorphism 132-151

8. Transformation and Permutation Group S_n ($n < 5$), Cayley ' s Theorem 152-186

9. Group Automorphism, Inner Automorphism, Group of Automorphisms 187-206

Unit-III

10. Definition and Basic Properties of Rings, Subrings 207-232

11. Ring Homomorphism, Ideals, Quotient Ring 233-259

12. Polynomial Ring 260-296

13. Integral Domain 297-310

14. Field 311-330

Unit-IV

15.

Definition and Examples of Vector Space, Subspaces, Sum and Direct sum of Subspaces, Linear Span, Linear Dependence, Linear Independence and Their basic Properties 331-360

16. Basis, Finite Dimensional Vector Space and Dimension (Existence Theorem, Extension Theorem, Invariance of the number of Elements), Dimension of sum of Subspaces, Quotient Space and Its Dimension 361-380

Unit-V

17. Linear Transformation and Its Representation as a Matrix 381-403

18. Algebra of Linear transformations, Rank-Nullity Theorem, Change of basis, Dual Space, Bi-dual Space and Natural Isomorphism Adjoint of a Linear Transformation 404-438

19. Eigen-Values and Eigen-Vectors of a Linear Transformation, Diagonalization 439-472

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