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coding theory is the study of the properties of codes and their respective fitness for specific applications codes are used for data compression cryptography error detection and correction data transmission and data storage

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part of mathematics and especially computer science

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in modern coding theory codes are viewed as large complex systems described by random sparse graphical models and encoding as well as decoding are accomplished by efficient local algorithms

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in coding theory we ignore the question of who has access to the code and how secret it may be instead one of the primary concerns becomes our ability to detect and correct errors in the code codes are used for many purposes in which the information is not intended to be secret

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course description this course introduces the theory of error correcting codes to computer scientists this theory dating back to the works of shannon and hamming from the late 40 s overflows with theorems techniques and notions of interest to theoretical computer scientists

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what is coding theory a mainstay of modern technology coding theory is the study of algebraic and combinatorial codes used to encode

information as well as the applications of these codes such applications include data compression cryptography and error detection

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algebraic coding theory is an area of discrete applied mathematics that is concerned in part with developing error control codes and encoding decoding procedures many areas of mathematics are used in coding theory and we focus on the interplay between algebra and coding theory the topics in this packet

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coding theory is a practical branch of mathematics concerned with the reliable transmission of information over communication channels it includes theory and practical algorithms for error detection and correction and it plays an important role in modern communication systems that require reliable and efficient transmission of information

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coding theory sometimes called algebraic coding theory deals with the design of error correcting codes for the reliable transmission of information across noisy channels it makes use of classical and modern algebraic techniques involving finite fields group theory and polynomial algebra

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