# COURSE STRUCTURE

# Class XI

Units		Three Hours	Max Marks, 100
			Marks
I.	SETS AND FUNCTIONS		29
П.	ALGEBRA		37
III.	COORDINATE GEOMETRY		13
IV.	CALCULUS		06
V.	MATHEMATICAL REASONING	KS.	03

# UNIT-I: SETS AND FUNCTIONS

1. Sets: (12) Periods

Sets and their representations. Empty set. Finite & Infinite sets. Equal sets. Subsets. Subsets of a set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set. Properties of Complement Sets.

12

2. Relations & Functions: (14) Periods

Ordered pairs, Cartesian product of sets. Number of elements in the cartesian product of two finite sets. Cartesian product of the set of reals with itself (upto R x R x R). Definition of relation, pictorial diagrams, domain, codomain and range of a relation. Function as a special kind of relation from one set to another. Pictorial representation of a function, domain, co-domain & range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum and greatest integer functions, with their graphs. Sum, difference, product and quotients of functions.

3. Trigonometric Functions: (18) Periods Positive and negative angles. Measuring angles in radians & in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity sin²x + cos²x=1, for all x. Signs of trigonometric functions. Domain and range of trignometric functions and their graphs. Expressing sin (x±y) and cos (x±y) in terms of sinx, siny, cosx & cosy. Deducing the identities like

 $\tan (x \pm y) = \frac{\tan x \pm \tan y}{1 \mp \tan x \tan y}, \cot (x \pm y) = \frac{\cot x \cot y \mp 1}{\cot y \pm \cot x},$   $\sin x + \sin y = 2 \sin \frac{x + y}{2} \cos \frac{x - y}{2}, \cos x + \cos y = 2 \cos \frac{x + y}{2} \cos \frac{x - y}{2},$   $\sin x - \sin y = 2 \cos \frac{x + y}{2} \sin \frac{x - y}{2}, \cos x - \cos y = -2 \sin \frac{x + y}{2} \sin \frac{x - y}{2},$ 

Identities related to  $\sin 2x$ ,  $\cos 2x$ ,  $\tan 2x$ ,  $\sin 3x$ ,  $\cos 3x$  and  $\tan 3x$ . General solution of trigonometric equations of the type  $\sin \theta = \sin \alpha$ ,  $\cos \theta = \cos \alpha$  and  $\tan \theta = \tan \alpha$ . Proof and simple applications of sine and cosine formulae.

#### UNIT-II: ALGEBRA

the following:

1. Principle of Mathematical Induction: (06) Periods

Process of the proof by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers. The principle of mathematical induction and simple applications.

# Maths P2014 Grade11

Judd E. Hollander

#### Maths P2014 Grade11:

Education for All 2000-2015: Achievements and challenges UNESCO, 2015-04-08 Literaturverz S 414 459

International Handbook on Education in Southeast Asia Lorraine Pe Symaco, Martin Hayden, 2021-12-23 This International Handbook provides a detailed account of the education systems of 11 Southeast Asian nations including Brunei Darussalam Cambodia Indonesia Lao People s Democratic Republic Malaysia Myanmar the Philippines Singapore Thailand Timor Leste and Vietnam It presents a systematic sector by sector explanation of how these national education systems deliver educational services and respond to national and international issues and challenges With 56 chapters the International Handbook is the region s most comprehensive educational reference source In the first of its chapters the editors introduce the regional context and draw attention to the distinctive characteristics of each of the 11 systems Southeast Asia representing 8 5% of the world's population is as dynamic as it is diverse The International Handbook charts progress and establishes a benchmark for documenting future developments It also provides a stepping off point for more detailed investigations of decision making processes and outcomes across the 11 national education systems and Learning Secondary School Mathematics Ann Kajander, Jennifer Holm, Egan J Chernoff, 2018-10-24 This volume brings together recent research and commentary in secondary school mathematics from a breadth of contemporary Canadian and International researchers and educators It is both representative of mathematics education generally as well as unique to the particular geography and culture of Canada The chapters address topics of broad applicability such as technology in learning mathematics recent interest in social justice contexts in the learning of mathematics as well as Indigenous education The voices of classroom practitioners the group ultimately responsible for implementing this new vision of mathematics teaching and learning are not forgotten Each section includes a chapter written by a classroom teacher making this volume unique in its approach. We have much to learn from one another and this volume takes the stance that the development of a united vision supported by both research and professional dialog provides the first step Education in Cambodia Vincent McNamara, Martin Hayden, 2022-05-14 This book is the most comprehensive account yet published about the education system in Cambodia It covers all system levels and draws upon the knowledge and insights of a wide range of leading Cambodian and foreign scholars The book focuses on how the system has developed and is making progress Significant achievements over the past two decades are evident but many problems remain including the poor quality of teaching research and institutional management Under funding is an ongoing obstacle but so too is a bureaucratic culture of resistance to change a history of weak governance and an anti reform sentiment deriving from a teacher centred and exam driven curriculum Achieving international standards must now be the system's highest priority To this end the system must rid itself of conservatism complacency and manipulation by parochial vested interests **Improving Primary** Mathematics Education, Teaching and Learning Mellony Graven, Hamsa Venkat, 2017-01-19 This book focuses on how to

improve the teaching and learning of primary level mathematics education within resource constrained contexts It builds on two large numeracy projects within South Africa which speak to broader global concerns and highlight how research and development not only enables one to meet ethical imperatives but also explore how further interventions can be developed Teacher and research communities must work together to create mutually beneficial relationships and establish a cohesive understanding of the requirements of primary mathematics education TeacherNI ICSE Predictive Papers 2014 | Grade X. 5 Subjects (Geography, History, English, Maths, Hindi), ICSE Predictive Question Papers for 2014 as per the ICSE syllabus covering 5 subjects including Geography English Literature Language Hindi Maths History Solutions are available online Instructions provided inside book after purchase TeacherNi experts with over 300 years combined teaching experience have set these papers Unlock Brilliance with Prediction Papers Solutions with Marking Scheme Upload your answer sheet for Correction by Experts Simplified Study Notes Revision MCQ s Past Prelim Papers Board Papers with Solution SUBSCRIBE NOW online Facing Forward Sajitha Bashir, Marlaine Lockheed, Elizabeth Ninan, Jee-Peng Tan, 2018-09-20 Facing Forward lays out a range of policy and implementation actions that are needed for countries in Sub Saharan Africa to meet the challenge of improving learning while expanding access and completion of basic education for all The book underscores the importance of aligning the education system to be relentlessly focused on learning outcomes and to ensuring that all children have access to good schools good learning materials and good teachers It is unique in characterizing countries according to the challenges they faced in the 1990s and the educational progress they have made over the past 25 years allowing countries in the region to learn from each other. The authors review the global literature and add to it by their extensive new analyses of multiple datasets from more than three dozen countries in the region they integrate findings about what affects children's learning their access to schooling and progress through basic education The book draws lessons from the region and for the region about what works and what is needed to better implement what is known to have worked The book examines four areas to help countries better align their systems to improve learning 1 completing the unfinished agenda of reaching universal basic education with quality 2 ensuring effective management and support of teachers 3 targeting spending priorities and budget processes on improving quality and 4 closing the institutional capacity gap It concludes with an assessment of how future educational progress may be affected by projected fertility rates and economic growth Annual Report - Illinois State Board of Education Illinois State Board of Education (1973-),2012 **Teacher Education Policy and Research** Diane Mayer, 2021-08-05 In this book leading teacher education researchers from Australia Belgium Canada England Finland Hong Kong SAR the Netherlands New Zealand North Ireland Portugal Scotland the USA and Wales examine teacher education policy and research in each of their contexts The book highlights the connections and disconnections between teacher education policy and research It examines contemporary challenges and issues in teacher education including how high quality teacher education is framed how teaching quality is

framed and the role of teacher education research It also considers future policy and research possibilities and opportunities for teacher education research equity and preparing teachers for work within contexts of super diversity and early career Passing the Numeracy Skills Test Mark Patmore, 2015-02-16 I m so grateful for this book which was invaluable for passing the skills test and made it much less intimidating It explained each component of the test clearly and concisely so that I knew what to expect taking me through the key knowledge and skills needed for each part and using language that was easy to follow The example questions helped me identify areas to work on and were great practice to build my confidence Ruth Makoff PGCE Secondary Teacher Trainee All applicants to Initial Teacher Training in England need to PASS the QTS Numeracy Skills Test before starting their course The test is designed to ensure trainee teachers have a sound grasp of numeracy skills such as mental arithmetic and interpreting statistics and how to apply these in practice This popular and widely recommended book outlines all of the requirements of the QTS Numeracy Skills Test explains the essential subject knowledge candidates need and includes practice questions for test preparation This sixth edition written by one of the authors of the test itself is updated throughout and includes a full practice test more practice questions and more question and answer commentary It is more than a collection of practice questions It includes advice tips test commentary and guidance to help you pass first time It helps you to familiarise yourself with the skills and knowledge to be tested fully understand the format and structure of the numeracy skills test know what to expect on the day of the test HOW TO USE THIS BOOK This book is divided in to six chapters Chapter 1 this very short chapter has been included to remind you of the basic arithmetic processes. The majority of you will be able to miss this unit out but some may welcome a chance to revise fractions decimals percentages etc Chapters 2 4 these cover the three content areas see above one area per chapter Chapter 5 this includes a practice mental arithmetic test and a full practice onscreen test for you to work through Chapter 6 this contains answers and key points for all the questions in the main chapters and for the sample tests In each chapter the additional required knowledge language and vocabulary are explained and worked examples of the type of questions to be faced are provided together with the practice questions. The answers for these questions are given in Chapter 6 together with further advice and guidance on solutions Revision checklists You can use the checklists in your revision to make sure that you have covered all the key content areas **Commonsense Methods for Children with Special Educational Needs** Peter Westwood, 2015-04-30 This fully revised and updated seventh edition of Commonsense Methods for Children with Special Educational Needs continues to offer practical advice on evidence based teaching methods and intervention strategies for helping children with a wide range of disabilities or difficulties. The advice the author provides is embedded within a clear theoretical context and draws on the latest international research and literature from the field Coverage includes learning difficulties and disabilities students with autism spectrum disorders intellectual disability physical or health issues and sensory impairments gifted and talented students developing social skills and self management behaviour management

teaching methods literacy and numeracy curriculum differentiation and adaptive teaching computer based instruction and e learning Peter Westwood also provides additional information and advice on transition from school to employment for students with disabilities lesson study e learning and computer aided instruction and reflects on the important changes made within the latest Diagnostic and Statistical Manual of Mental Disorders DSM 5 In It Together Debbie Zacarian, Michael Silverstone, 2015-02-17 Harness the power of teacher student school family and community partnerships Building coalitions of support is within easy reach with this compelling book from highly regarded educational expert Debbie Zacarian and veteran classroom teacher Michael Silverstone Richly detailed vignettes and concrete evidence based strategies help you systematically Develop positive and enduring relationships with students families and communities Build coalitions of support around learning and engagement Support students and families from marginalized populations This thoughtful and inspiring guide shows you how to ramp up student achievement and engagement with methods you can use immediately

Woodcock-Johnson IV Nancy Mather, Lynne E. Jaffe, 2016-01-22 Includes online access to new customizable WJ IV score tables graphs and forms for clinicians Woodcock Johnson IV Reports Recommendations and Strategies offers psychologists clinicians and educators an essential resource for preparing and writing psychological and educational reports after administering the Woodcock Johnson IV Written by Drs Nancy Mather and Lynne E Jaffe this text enhances comprehension and use of this instrument and its many interpretive features This book offers helpful information for understanding and using the WJ IV scores provides tips to facilitate interpretation of test results and includes sample diagnostic reports of students with various educational needs from kindergarten to the postsecondary level The book also provides a wide variety of recommendations for cognitive abilities or al language and the achievement areas of reading written language and mathematics It also provides guidelines for evaluators and recommendations focused on special populations such as sensory impairments autism English Language Learners and gifted and twice exceptional students as well as recommendations for the use of assistive technology The final section provides descriptions of the academic and behavioral strategies mentioned in the reports and recommendations The unique access code included with each book allows access to downloadable easy to customize score tables graphs and forms This essential guide Facilitates the use and interpretation of the WJ IV Tests of Cognitive Abilities Tests of Oral Language and Tests of Achievement Explains scores and various interpretive features Offers a variety of types of diagnostic reports Provides a wide variety of educational recommendations and evidence based Psychosocial Skills and School Systems in the 21st Century Anastasiya A Lipnevich, Franzis strategies Preckel, Richard D. Roberts, 2016-04-02 This book provides a comprehensive overview and in depth analysis of research on psychosocial skills examining both theory and areas of application It discusses students psychosocial skills both as components of academic success and desired educational outcomes in grades K through 12 The book describes an organizing framework for psychosocial skills and examines a range of specific constructs that includes achievement motivation self

efficacy creativity emotional intelligence resilience and the need for cognition In addition it reviews specific school based interventions and examines issues that concern the malleability of psychosocial skills It addresses issues relating to the integration of psychosocial skills into school curriculum as well as large scale assessment policies Topics featured in this book include Development of psychosocial skills in grades K 12 Assessment of psychosocial skills Conscientiousness in education and its relation to meaningful educational outcomes Creativity in schools including theory assessment and interventions Academic emotions and their regulation through emotional intelligence Resilience and school based programs aimed at enhancing it Psychosocial Skills and School Systems in the 21st Century is a must have resource for researchers graduate students clinicians mental health professionals and policymakers in child and school psychology educational policy and politics public health social work developmental psychology and educational psychology The Coercive Community College Leah P. Hollis, 2016-07-25 Few studies address workplace bullying in American higher education Leah P Hollis EdD author of Bully in the Ivory Tower addressed the issue of workplace bullying in four year institutions This volume The Coercive Community College replicates the study to reveal that 64% of community college respondents are affected by workplace bullying N.L.S.M.A. Reports School Mathematics Study Group, 1969 *Increasing Productivity and Efficiency* in Online Teaching Dickenson, Patricia, 2016-05-19 Distance learning has become very popular in recent years making evident some of the problems inherent to online classes as they are today High attrition rates driven in part by student isolation and low satisfaction have plagued online courses For an online class to succeed it must be built upon engaging media and meaningful interaction Increasing Productivity and Efficiency in Online Teaching provides a reference for educators in virtual classrooms and enumerates strategies to foster instructor engagement and support Because co construction of information opposed to rote memorization of disseminated facts engages students and develops critical thinking skills online education must shift to reflect this Drawing from learning theory this publication focuses on the ways educators can shape their online classes to best suit their students and leave them with knowledge and course satisfaction This book is recommended for researchers developers students of education administrators and online educators in all subject areas ¿Qué nos dice PISA sobre la enseñanza y el aprendizaje de las ciencias? Una proximación a través de árboles de decisión López-Martín, Esther, Expósito-Casas, Eva, Carpintero Molina, Elvira, El presente trabajo analiza los datos de Espa a en PISA 2015 con los objetivos de identificar los factores que m s se relacionan con la competencia cient fica y describir el perfil de los estudiantes con mayor y menor desempe o en la prueba de ciencias en funci n de las variables de contexto Para ello se ha utilizado una t cnica multivariada de clasificaci n basada en rboles de decisi n con el algoritmo CART Classification and Regression Trees Tras el estudio descriptivo exploratorio realizado se presenta la selecci n y jerarqu a de las caracter sticas contextuales del estudiante que m s se relacionan con su nivel competencial en ciencias El grado al que asiste el estudiante junto con sus expectativas acad micas y la repetici n de curso son las variables que de forma global mejor predicen el rendimiento en ciencias de los estudiantes espa oles de 15 a os A su vez los resultados relativos al desempe o en grupos de estudiantes extremos de alto y bajo rendimiento permiten profundizar en el an lisis identific ndose aquellas variables con una incidencia diferencial para ambos colectivos Entre las principales conclusiones del estudio destaca la importancia de la labor que se realiza en los centros educativos ya que la trayectoria acad mica y las variables psicoeducativas parecen tener un mayor efecto sobre los resultados acad micos de los estudiantes que sus caracter sticas socioecon micas La discusi n profundiza en las principales implicaciones de estos resultados para una mejora de la ense anza de las ciencias en Espa a que pueda verse reflejada en la disminuci n de alumnos rezagados as como en el aumento del desempe o medio y especialmente del n mero de alumnos situados en niveles de excelencia Scientific and Technical Aerospace Reports ,1991 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database DICID ACONDE, DICID, DIC

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