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MASTER OF ARTS IN TEACHING
MAJOR IN MATHEMATICS

MT 211   FOUNDATIONS OF SCIENCE/MATH EDUCATION

This course deals with the philosophical, sociological and psychological foundation applied to teaching and learning situations.

CALL NO.	AUTHOR	TITLE OF BOOK	COPYRIGHT DATE	NO. OF COPIES
	Lee	Introduction to numerical analysis	2024	1
CIR GE 105 .W54e2 2007	Scott, Brenna	Environment : the science behind the stories	2007	1
CIR LB 17 .O76f9 2006	Ornstein, Allan C.	Foundations of education	2006	2

MT 212   STATISTICAL METHODS

The course deals with the basic concepts in statistics including the collection, organization, analysis and interpretation of data.

CALL NO.	AUTHOR	TITLE OF BOOK	COPYRIGHT DATE	NO. OF COPIES
	Sirug	Introduction to Probability and Statistics: A Simplified Approach	2024	1
	Gabriel Otieno Okello	Statistical Methods Using SPSS 1st Edition	2024	1
	Mr Lewis McConkey	Statistical Methods	2024	1
CIR QA 276.12 .M64s4 2022	Mohr, Donna.	Statistical methods	2022	1
CIR QA 276.12 .S74	Landers, Richard N.	A Step-by-step introduction to statistics for business	2019	1
CIR HF 1017 .A53s13	Anderson, David R.	Statistics for business and economics	2018	1
CIR HA 29 .T65f 2016	Tokunaga, Howard.	Fundamental statistics for the social and behavioral sciences	2016	1

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CALL NO.	AUTHOR	TITLE OF BOOK	COPYRIGHT DATE	NO. OF COPIES
CIR QA 278 .K55p4 2016	Kline, Rex B.	Principles and practice of structural equation modeling	2016	1

MT 213		RESEARCH METHODOLOGY		

The course deals with the different research design and methods in quantitative and qualitative approaches. It includes problem identification selection, elements of a research proposal and ethics in doing research.

CALL NO.	AUTHOR	TITLE OF BOOK	COPYRIGHT DATE	NO. OF COPIES
	Arjun Dasharath Jadhav	Research Methodology: A Guide for Ph.D. Students: From Proposal to Publication: A Step-by-Step Approach	2024	1
	Sahar M. Taresh	Research Methodology: A Practical Guide for Educators and Learners: A Practical Guide for Educators and Researchers to Conduct Rigorous and Ethical Studies	2024	1
FIL HD 31 .S57 2023	Winston S. Sirug.	Management science: quantitative methods for business operations research	2023	3
CIR H 62 .G73	David E. Gray.	Doing research in the real world	2022	1
CIR H 61.3 .B54 2021		Big data and social science : data science methods and tools for research and practice.	2021	1
CIR H 62 .K86r5 2019	Kumar, Ranjit.	Research methodology : a step-by-step guide for beginners	2019	1
CIR LB 1028.38 .M35c2 2019	McKenney, Susan E.	Conducting educational design research	2019	1
CIR H 62 .Q83 2016	Scott, Brenna	Qualitative research	2016	1

	Ted Gournelos,Joshua R. Hammonds, Maridath A. Wilson	Doing Academic Research: A Practical Guide to Research Methods and Analysis 1st Edition	2019	1
ebooks	Edited by Vinayak Bairagi and Mousami V. Munot	Research Methodology A Practical and Scientific Approach	2019	
ebooks	Nicholas Walliman	Research methods: the basics	2018	
ebooks	Paul D. Leedy	Practical research planning and design	2016	

MT 214   CURRICULUM PLANNING & DEVELOPMENT IN SCIENCE/MATH EDUCATION

The course is primarily with the concept and theoretical foundation on curriculum, planning and development. It includes the process, techniques, and problems in curriculum planning, teaching tools, requirements, implementation and evaluation.

CALL NO.	AUTHOR	TITLE OF BOOK	COPYRIGHT DATE	NO. OF COPIES
	Young	Advancing Technology for Educational Development (with Free Database Article)	2025	1
	Romo	Curriculum Development	2024	1
	Roach	Importance of Curriculum Development in Education Process (with Free Database Article)	2024	1
	Wilson	Technological Perspective of Education and Curriculum Development (with Free Database Article)	2024	1
	Balakrishnan	Components of the Curriculum (with Free Database Article)	2022	1
CIR LB 2806.15 .G53c4	3G E-Learning	Curriculum Development: The importance of context	2021	1
CIR GV 363 .L86s3	Lund, Jacalyn Lea.	Standards-based physical education curriculum development	2015	1
FIL LB 2806.15 .B55c	Bilbao, Purita P.	Curriculum development for teacher	2015	1
FIL LB 2806.15 .R49c	Reyes, Emerita	curriculum development	2015	1

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MT 221   SET THEORY

The course covers the basic concept of sets, operations sets, function and relations, special type of functions. It also includes the fundamentals and algebra of logic.

CALL NO.	AUTHOR	TITLE OF BOOK	COPYRIGHT DATE	NO. OF COPIES
CIR QA 248 .C86s 2016	Cunningham, Daniel W..	Set theory : a first course	2016	1
CIR QA 278 .K55p4 2016	Kline, Rex B..	Principles and practice of structural equation modeling	2016	1
CIR QD 462 .R66m 2016	Roos, B. O. (Björn O.)	Multiconfigurational quantum chemistry	2016	1

MT 222   LINEAR ALGEBRA

This course deals with the solution of linear system of equations, matrixes and determinants, vector space and subspaces and linear independence.

CALL NO.	AUTHOR	TITLE OF BOOK	COPYRIGHT DATE	NO. OF COPIES
	Wolf	An introduction to non linear algebra and analytical geometry	2025	1
	Erstein	An introduction to non linear differential equation	2025	1
	Moretra	An introduction to algebraic & combinatorial coding theory	2024	1
CIR QA 184 .O541 2021	O'Leary, Michael L.	Linear algebra	2021	1
CIR QA 184.2 .K86l 2017	Kumaresan, S.	Linear algebra : a geometric approach	2017	1
CIR QA 184.2 .D44i 2009	DeFranza, Jim.	Introduction to linear algebra with applications	2009	1
CIR QA 184.2 .W55l6 2008	Williams, Gareth.	Linear algebra with applications	2008	1
CIR QA 184.2 .C371 2007	Carlen, Eric A.	Linear algebra : from the beginning	2007	1

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MT 223   ABSTRACT ALGEBRA

The study of groups, group homomorphism's, Cayley's Theorem, Langrange Theorem, permutation group, Sylow's Theorems.

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL QA 162 .Y63a 2016	Ymas, Sergio E.,Jr.	Abstract algebra (modern algebra)	2016	1
CIR QA 162 .K55a 2000	Klima, Richard E.	Applications of abstract algebra with Maple	2000	1
CIR QA 155 .G66a 1998	Goodman, Frederick M.	Algebra : abstract and concrete	1998	1

MT 224   MODERN GEOMETRY

This course deals with the historical development of Geometry in three periods: Early geometry, Euclidean and non-Euclidean geometry. It includes the study of basic geometric ideas in the context of vectors and vector space.

CALL NO.	AUTHOR	TITLE OF BOOK	COPYRIGHT DATE	NO. OF COPIES
	Wolf	An introduction to non linear algebra and analytical geometry	2025	1
	Leo	Core concepts in mathematics geometry	2024	1
	Kumar	Introduction to computational geometry	2024	1
CIR TA 351 .S83 2022		Statics and analytic geometry.	2022	1
CIR QA 445 .G46 2013		Schaum's outlines : geometry.	2013	1
FIL QA 551 P36 2005	Panopio, Felix M.	Simplified analytic geometry (worktext)	2005	1
CIR QA 473 .D87m2 1992	Dubrovin, B. A.	Modern geometry methods and application	1992	1

MT 225   MATHEMATICAL ANALYSIS

The course deals with analysis and methods of calculus together with the application in Geometry and Physics and other related fields. A logical development of the fundamental principle is done to give emphasis on computation and applied of calculus. The course deals with the theories and concepts of functions of one variable and their graphs, limits and continuity, the tangent line, derivatives, rate of change, applications of the derivatives, the definite integral and application of the definite integral

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CALL NO.	AUTHOR	TITLE OF BOOK	COPYRIGHT DATE	NO. OF COPIES
	Carroll	An introduction to multivate analysis	2025	1
	Lee	Introduction to numerical analysis	2024	1
	Cook	Introductory numerical analysis	2024	1
CIR HG 4521 .R45i11 2019	Reilly, Frank K.	Investment analysis and portfolio management	2019	1
CIR QA 276 S378 2017	Joseph Schmuller, PhD.	Statistical analysis with R	2017	1
CIR QA 278 .K55p4 2016	Kline, Rex B.	Principles and practice of structural equation modeling	2016	1
CIR QA 276 .R36s3 2013	Ramsey, Fred L.	The Statistical sleuth : / a course in methods of data analysis /	2013	1

MT 226   SPECIAL TOPICS IN MATHEMATICS

The course covers special topics in the fields of mathematics which are not usually covered in other mathematics courses or maybe included but not given thorough and in-depth discussion. Topics include tessellations, transformation, methods and styles of divisibility, prime numbers and congruence.

CALL NO.	AUTHOR	TITLE OF BOOK	COPYRIGHT DATE	NO. OF COPIES

PT 231   COMPUTER APPLICATIONS IN SCIENCE/MATH EDUCATION

This course deals with the concepts and skill acquisition on basic, intermediate and advanced computer literacy and their application teaching and learning situations. It includes the application of selected Microsoft Office Computer applications.

CALL NO.	AUTHOR	TITLE OF BOOK	COPYRIGHT DATE	NO. OF COPIES
CIR QA 76.76 .P47i2 2015	Perkovic, Ljubomir.	Introduction to computing using Python : an application development focus	2015	1

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CIR QA 76.76 .P47i2 2012	Perkovic, Ljubomir.	Introduction to computing using Python : an application development focus	2012	1
CIR QA 76.9.D3 B56m 2011	Bingham, Richard	Managing oracle fusion applications : best practices for a high-performance enterprise application management strategy	2011	1

PT 232   ENVIRONMENTAL SCIENCES

The course is interdisciplinary; it embraces a wide variety of topics form different areas of study. This course deal with principles of science process, energy conversion that underlie all ecological processes. It also includes the study of Earth in its natural composition and natural system change over time and space and the interrelationship of human's environment.

CALL NO.	AUTHOR	TITLE OF BOOK	COPYRIGHT DATE	NO. OF COPIES
FIL QH 541 .G85f 2015 c.1	Ryan Manuel D. Guido.	Fundamentals of environmental science	2015	3
CIR G 73 .M66i2 2013	Montello, Daniel R.	An Introduction to scientific research methods in geography and environmental studies	2013	1
CIR GE 340 .E58 2012		Environmental science	2012	1
CIR GE 105 .E5838 2011		Environmental Science : understanding our changing earth	2011	2

PT 233   TEACHING STRATEGIES AND EVALUATION IN SCIENCE/MATH EDUCATION

This course deals with the different teaching strategies and type and modes of evaluation in mathematics and science education.

CALL NO.	AUTHOR	TITLE OF BOOK	COPYRIGHT DATE	NO. OF COPIES
CIR LB 1025 S22 2002	Songco, Evelyn A.	Teaching strategies in social science : for elementary grades	2002	4
FIL LB 1025 .S35t 1996	Salandanan, Gloria G.	An Introduction to scientific research methods in geography and environmental studies	1996	5

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PT 234   ETHICS AND VALUES IN SCIENCE/MATH EDUCATION

The course deals with the discussion of issues, problems and values on morality and spirituality in the public service and education. It includes the concept and principles of ethical character and leadership, and professionalism.

CALL NO.	AUTHOR	TITLE OF BOOK	COPYRIGHT DATE	NO. OF COPIES
CIR QA 278 .K55p4 2016	Kline, Rex B.	Principles and practice of structural equation modelling	2016	1

PT 235   SEMINAR ON TRENDS, ISSUES AND PROBLEMS IN SCIENCE/MATH EDUCATION

This course deals with the different trends, issues and problems in mathematics/science education in context of school organization and management, curriculum implementation, instruction and educational outcomes.

CALL NO.	AUTHOR	TITLE OF BOOK	COPYRIGHT DATE	NO. OF COPIES
CIR QA 278 .K55p4 2016	Kline, Rex B.	Principles and practice of structural equation modelling	2016	1

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