Kingdom of Saudi Arabia Jouf University College of Science Department of Mathematics







المملكة العربية السعودية جامعة الجوف كلية العلوم قسم الرياضيات



DEPARMENT OF MATHEMATICS Master of Science in Mathematics Program

Semester System Curriculum-Study Plan







المملكة العربية السعودية جامعة الجوف كلية العلوم قسم الرياضيات

Curricular Overview

Total Credit hours of the program: 39 (Two years – 4 Semesters)

	Study Plan						
Level	Course Code		Course Title	Required or Elective	Pre- Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 1	MATH 600		Ethics and Editing Scientific Research	Required		2(2,0,0)	Department
	MATH 610		Abstract Algebra	Required		2(2,0,0)	Department
	MATH 620		Functional Analysis	Required		2(2,0,0)	Department
	MATH 630		Theory of Differential Equations	Required		2(2,0,0)	Department
	MATH 640		Numerical Analysis	Required		2(2,0,0)	Department
Level 2	Students select one	MATH 643	Stochastic Processes	Elective	MATH 630	2(1,1,0)	Department
	course from them.	MATH 632	Mathematical Biology	Elective	MATH 630	2(1,1,0)	Department
	MATH 631		Partial Differential Equations 1	Required	MATH 600 & MATH 630	3(3,0,0)	Department
	MATH 641		Numerical Linear Algebra	Required	MATH 640	3(2,1,0)	Department
	MATH 642		Optimization Methods	Required	MATH 640	2(2,0,0)	Department
Level 3	Students select one course from them.	MATH 636	Partial Differential Equations 2	Elective	MATH 631	2(2,0,0)	Department
		MATH 646	Stochastic Differential Equations	Elective	MATH 643	2(2,0,0)	Department
	MATH 635		Principles of Optimal Control	Required	MATH 631	3(2,1,0)	Department
	MATH 645		Advanced Scientific Computation	Required	MATH 641	3(2,1,0)	Department
	MATH 697		Selected Topics in Mathematics*	Required	MATH 631& MATH 641	2(2,0,0)	Department
Level 4	MATH 699		Thesis**	Required	**	9(9,0,0)	Department

^{*}Needs department approval

^{**} In order to register the thesis, one must pass 50% of the courses with a cumulative grade of no less than very good.