1440/8/6 11-04-2019 3/40/80920

المملكة العربية السعودية
وزارة التعليم
جامعة الجوف
كلية العلوم
رمزه (51/9/44)

بسم الله الرحمن الرحيم

الرقم :.....
التاريخ : / / 14هـ
المرفقات :.....

Master of Science In Mathematics (39 Credit Hours)

1st Level

Course Code	Course Name	Credit Units
MATH 600	Ethics and Editing Scientific Research	2
MATH 610	Abstract Algebra	2
MATH 620	Functional Analysis	2
MATH 630	Theory of Differential Equations	2
MATH 640	Numerical Analysis	2
Total Credits		10

2nd Level

1 Pure Mathematics

Course Code	Course Name		Credit Units	Prerequisite
MATH 611	Matrix Groups		3	MATH 600 & MATH 610
MATH 621	Harmonic Analysis		3	MATH 620
MATH 622	Advanced Functional Analysis		2	MATH 620
MATH 612	Analytic Number Theory	Choose one of these two courses	2	MATH 610
MATH 623	Topology and Geometric Analysis		2	MATH 620
Total Credits			10	

2 Applied Mathematics

Course Code	Course Name		Credit Units	Prerequisite
MATH 631	Partial Differential Equations 1		3	MATH 600 & MATH 630
MATH 641	Numerical Linear Algebra		3(2,1,0)	MATH 640
MATH 642	Optimization Methods		2	MATH 640
MATH 632	Mathematical Biology	Choose one of these two courses	2(1,1,0)	MATH 630
MATH 643	Stochastic Processes		2	MATH 630
Total Credits			10	

3rd Level

1 Pure Mathematics

Course Code	Course Name		Credit Units	Prerequisite
MATH 615	Ring Theory		3	MATH 611
MATH 625	Complex Analysis		3	MATH 621
MATH 696	Selected Topics in Pure Mathematics		2	MATH 611 & MATH 621
MATH 616	Control Theory	Choose one of these two courses	2	MATH 621
MATH 626	Potential Theory		2	MATH 621
Total Credits			10	

2 Applied Mathematics

Course Code	Course Name		Credit Units	Prerequisite
MATH 635	Principles of Optimal Control		3(2,1,0)	MATH 631
MATH 645	Advanced Scientific Computation		3(2,1,0)	MATH 641
MATH 697	Selected Topics in Applied Mathematics		2	MATH 631 & MATH 641
MATH 636	Partial Differential Equations 2	Choose one of these two courses	2	MATH 631
MATH 646	Stochastic Differential Equations		2	MATH 643
Total Credits			10	

4th Level (Thesis)

1 Pure Mathematics & 2 Applied Mathematics

Course Code	Course Name	Credits
MATH 699	Thesis	9
Total Credits		9