

## Plan of Master-MATH-ENG

### Level 1:

C	Course Code	Course Name	Credit Hours	Lectures	Laboratory	Tutorial	Pre-requisite
1	MAT611	Introduction to Measure and Integration	4	3	0	1	
2	MAT621	Advanced Linear Algebra	4	3	0	1	
3	MAT641	Numerical Analysis	4	3	0	1	
			12	9	0	3	

### Level 2:

C	Course Code	Course Name	Credit Hours	Lectures	Laboratory	Tutorial	Pre-requisite
1	MAT613	Introduction to Functional Analysis	4	3	0	1	
2	MAT623	Algebra(1)	4	3	0	1	
3	MAT631	Partial Differential Equations	4	3	0	1	
			12	9	0	3	

### Level 3:

C	Course Code	Course Name	Credit Hours	Lectures	Laboratory	Tutorial	Pre-requisite
1	MAT671	Topology	4	3	0	1	
2	MATxxx	Elective Course(1)	4	x	x	x	
3	MATxxx	Elective Course(2)	4	x	x	x	
			12	x	x	x	

**Level 4:**

C	Course Code	Course Name	Credit Hours	Lectures	Laboratory	Tutorial	Pre-requisite
1	MATxxx	Elective Course(3)	4	x	x	x	
2	MAT699	Research Project	4	x	x	x	
			8	x	x	x	

## Elective Courses

### List A

1. MAT 615: Applied Functional Analysis;
2. MAT 642: Numerical Methods for ODEs;
3. MAT 645: Numerical Optimization;
4. MAT 653: Combinatorial Optimization;
5. MAT 661: Coding Theory & Cryptography;
6. MAT 663: Mathematical and Computational Modeling;
7. MAT 681: Selected Topics in Applied Mathematics(1);
8. MAT 683: Selected Topics in Applied Mathematics(2).

### List B

9. MAT 624: Algebra (2);
10. MAT 626: Number Theory;
11. MAT 628: Representation Theory;
12. MAT 633: Ordinary Differential Equations;
13. MAT 651: Graph Theory & Combinatorics;
14. MAT 675: Differential Geometry;
15. MAT 685: Selected Topics in Pure Mathematics(1);
16. MAT 687: Selected Topics in Pure Mathematics(2).