

**KONERU LAKSHMAIAH EDUCATION FOUNDATION
DEPARTMENT OF MATHEMATICS**

M.Sc.(Applied Mathematics) Y19 CURRICULUM

Semester-1										
Sl. No	Year	Semester	Course Code	Course Title	L	T	P	S	Cr	CH
1	1	1	19AM1101	Real Analysis	4	0	0	0	4	4
2	1	1	19AM1102	Ordinary Differential Equations	3	0	2	0	4	5
3	1	1	19AM1103	Numerical Methods	3	0	2	0	4	5
	1	1	19AM1104	Introduction to Computer Programming	3	0	2	0	4	5
5	1	1	19AM1105	Mathematical Statistics	4	0	0	0	4	4
6	1	1	19AM1106	Seminar-1	0	0	2	0	1	2
Total					17	0	8	0	21	25

Semester-2										
Sl. No	Year	Semester	Course Code	Course Title	L	T	P	S	Cr	CH
1	1	2	19AM1201	Soft computing	4	0	0	0	4	4
2	1	2	19AM1202	Data Structures	3	0	2	0	4	5
3	1	2	19AM1203	Statistical Inference	4	0	0	0	4	4
4	1	2	19AM1204	Discrete Mathematics	4	0	0	0	4	4
5	1	2	19AM1205	Complex Analysis	4	0	0	0	4	4
6	1	2	19AM1206	Seminar-2	0	0	2	0	1	2
Total					19	0	4	0	21	23

Semester-3										
Sl.No	Year	Semester	Course Code	Course Title	L	T	P	S	Cr	CH
1	2	1	19AM2101	Partial Differential Equations	4	0	0	0	4	4
2	2	1	19AM2102	Data base Management systems	3	0	2	0	4	5
3	2	1	19AM2103	Abstract Algebra	4	0	0	0	4	4
4	2	1	19AM2104	Transform Techniques	3	0	2	0	4	5
5	2	1	20UC1102	Design Thinking and Innovation - 1	1	0	0	4	2	6
6	2	1		Elective-I	4	0	0	0	4	4
7	2	1	19AM2105	Seminar-3	0	0	2	0	1	2
Total					19	0	6	4	23	30

Semester-4										
Sl.No	Year	Semester	Course Code	Course Title	L	T	P	S	Cr	CH
1	2	2	19AM2201	Topology	4	0	0	0	4	4
2	2	2	19AM2202	Mathematical Programming	4	0	0	0	4	4
2	2	2	20UC1203	Design Thinking and Innovation - 2	1	0	0	4	2	6
3	2	2		Elective-II	4	0	0	0	4	4
4	2	2		Elective-III	4	0	0	0	4	4
5	2	2	19AM2203	Dissertation with Research Publication	0	0	0	4	12	12
Total					17	0	0	8	30	36
TOTAL CREDITS					95					

ELECTIVE STREAM -CRYPTOGRAPHY &CYBERSECURITY										
Sl.No	Year	Semester	Course Code	Course Title	L	T	P/S	Cr	CH	
1	2	3	19AM2106	Crypto Analysis And Cyber Defense	3	0	2	4	5	
2	2	3	19AM2204	Computer Networks and Security	3	0	2	4	5	
3	2	3	19AM2205	Crypto currencies & Block chain Technologies	3	0	2	4	5	
Total					9	0	6	12	15	

ELECTIVE STREAM - DATA ANALYTICS										
Sl.No	Year	Semester	Course Code	Course Title	L	T	P/S	Cr	CH	
1	2	4	19AM2107	Statistics with R Programming	3	0	2	4	5	
2	2	4	19AM2206	Big Data Analytics	3	0	2	4	5	
3	2	4	19AM2207	Cloud Computing	3	0	2	4	5	
Total					9	0	6	12	15	

ELECTIVE STREAM – Fluid Mechanics										
Sl. No	Year	Semester	Course Code	Course Title	L	T	P/S	Cr	CH	
1	2	4	19AM2108	Continuum Mechanics-1	4	0	0	4	4	
2	2	4	19AM2208	Continuum Mechanics-2	4	0	0	4	4	
3	2	4	19AM2209	Computational Fluid Dynamics	3	0	2	4	5	
Total					11	0	2	12	13	

