



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
Sivakasi**

(Affiliated to Madurai Kamaraj University, Reaccredited with "A" Grade by NAAC,
College with Potential for Excellence by UGC & Mentor Institution under UGC PARAMARSH)

NAAC SSR Cycle IV (2015-2020)

**1.1. CURRICULUM DESIGN AND
DEVELOPMENT**

**1.1.3. COURSES FOCUS ON EMPLOYABILITY /
ENTREPRENEURSHIP / SKILL DEVELOPMENT**

**COURSES FOCUS ON EMPLOYABILITY /
ENTREPRENEURSHIP / SKILL
DEVELOPMENT**

B.Sc MATHEMATICS – 2017 AND LATER



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI – 626 123.**

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,
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DEPARTMENT OF MATHEMATICS

B.SC. MATHEMATICS

**COURSES FOCUS ON EMPLOYABILITY, ENTREPRENEURSHIP AND SKILL DEVELOPMENT
2017 AND LATER**

**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI.
DEPARTMENT OF MATHEMATICS
B.SC MATHEMATICS – PROGRAMME CODE: GLMT
(For those who have joined in June 2014 and later)**

COURSES FOCUSING ON EMPLOYABILITY, ENTREPRENEURSHIP AND SKILL DEVELOPMENT

S. No	Semester	Course Code	Course Title	Focus on employability, entrepreneurship and skill development
1.	I	GLMT11	Calculus and Trigonometry	Employability
2.		GLMT12	AG3D and Vector Calculus	Employability
3.	II	GLMT21	Theory of Equations	Skill development
4.		GLMT22	Numerical Methods	Skill development
5.	III	GLMT31	Modern Algebra	Employability
6.		GLMT32	Differential equations	Employability
1.		GLMT3A	Programming in C	Skill development
2.		GLMT3AL	Programming in C Lab	Entrepreneurship
3.		GLMT3N	Introduction to Statistics	Skill development
4.		GLMT3A1	Allied Courses for Chemistry and Physics Major Students Allied Mathematics I	Skill development
5.		GLMT41	Graph Theory	Employability
6.	IV	GLMT42	Sequences and Series	Employability
7.		GLMT4A	Programming in C++	Employability
8.		GLMT4AL	Programming in C++ Lab	Entrepreneurship
9.		GLMT4N	Numerical Methods	Skill development
10.		GLMT4A1	Allied Courses for Chemistry and Physics Major Students Allied Mathematics II	Skill development
11.		GLMT4DSL	Combinatorics	Skill development
12.	V	GLMT51	Real Analysis	Employability
13.		GLMT52	Linear Algebra	Employability
14.		GLMT5L	Maple Lab I	Entrepreneurship
15.		GLMT5E1 / GLMT5E2/	Linear Programming/Fourier Analysis	Employability



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DEPARTMENT OF MATHEMATICS

B.SC. MATHEMATICS

**COURSES FOCUS ON EMPLOYABILITY, ENTREPRENEURSHIP AND SKILL DEVELOPMENT
2017 AND LATER**

16.		GLMT5E3/ GLMT5E4	Discrete Mathematics/Modern Applied Algebra	Employability
17.	VI	GLMT61	Complex Analysis	Employability
18.		GLMT62	Number theory	Skill development
19.		GLMT63	Statistics	Skill development
20.		GLMT6L	Matlab	Entrepreneurship
21.		GLMT6E1/ GLMT6E2/ GLMT6E3	Operations Research / Applied Statistics/ Automata and formal languages	Skill development
22.		GLJO66	Career Mathematics	Employability
23.		GLJO66L	Career Mathematics Lab	Employability

Signature of the HOD with Seal

Principal

Dr. T. Palaneeswari
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DEPARTMENT OF MATHEMATICS

B.SC. MATHEMATICS WITH COMPUTER APPLICATIONS

**COURSES FOCUS ON EMPLOYABILITY, ENTREPRENEURSHIP AND SKILL DEVELOPMENT
2017 AND LATER**

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
SIVAKASI.
DEPARTMENT OF MATHEMATICS
B.SC MATHEMATICS WITH COMPUTER APPLICATIONS – PROGRAMME CODE: 15UMC
(For those who have joined in June 2015 and later)

COURSES FOCUSING ON EMPLOYABILITY, ENTREPRENEURSHIP AND SKILL DEVELOPMENT

S. No	Semester	Course Code	Course Title	Focus on employability, entrepreneurship and skill development
7.	I	GLMC11	Calculus and Trigonometry	Employability
8.		GLMC12	AG3D and Vector Calculus	Employability
9.		GLMC1A	Statistics I	Skill development
10.	II	GLMC21	Theory of Equations	Skill development
11.		GLMC22	Numerical Methods	Skill development
12.		GLMC2A	Statistics II	Skill development
13.		GLMC2AL	Statistics Lab	Entrepreneurship
14.	III	GLMC31	Modern Algebra	Employability
15.		GLMC32	Differential equations	Employability
24.		GLMC3A	Programming in C	Skill development
25.		GLMC3AL	Programming in C Lab	Entrepreneurship
26.		GLMC3N	Numerical Aptitude I	Skill development
27.	IV	GLMC41	Graph Theory	Employability
28.		GLMC42	Sequences and Series	Employability
29.		GLMC4A	Programming in C++	Employability
30.		GLMC4AL	Programming in C++ Lab	Entrepreneurship
31.		GLMC4N	Numerical Aptitude II	Skill development
32.		GLMC4DSL	Combinatorics	Skill development
33.	V	GLMC51	Real Analysis	Employability
34.		GLMC52	Linear Algebra	Employability
35.		GLMC5L	Maple Lab I	Entrepreneurship
36.		GLMC5E1 / GLMC5E2/	Linear Programming/Fourier Analysis	Employability
37.		GLMC5E3/	Discrete Mathematics/Modern	Employability



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**COURSES FOCUS ON EMPLOYABILITY, ENTREPRENEURSHIP AND SKILL DEVELOPMENT
2017 AND LATER**

		GLMC5E4	Applied Algebra	
38.	VI	GLMC61	Complex Analysis	Employability
39.		GLMC62	Number theory	Skill development
40.		GLMC63	Statistics	Skill development
41.		GLMC6L	Matlab	Entrepreneurship
42.		GLMC6E1/ GLMC6E2/ GLMC6E3	Operations Research / Applied Statistics/ Automata and formal languages	Skill development
43.		GLJO70	Mathematical Statistics	Employability
44.		GLJO70L	Mathematical Statistics Lab	Employability


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DEVELOPMENT
M.Sc MATHEMATICS – 2017 AND LATER**



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DEPARTMENT OF MATHEMATICS

M.SC. MATHEMATICS

**COURSES FOCUSING ON EMPLOYABILITY, ENTREPRENEURSHIP AND SKILL DEVELOPMENT
2017 AND LATER**

**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
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DEPARTMENT OF MATHEMATICS
M.SC MATHEMATICS – PROGRAMME CODE: HLMT
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COURSES FOCUSING ON EMPLOYABILITY, ENTREPRENEURSHIP AND SKILL DEVELOPMENT**

S. No	Sem ester	Course Code	Course Title	Focus on employability, entrepreneurship and skill development
1.	I	HLMT11	Algebra I	Employability
2.		HLMT12	Analysis I	Employability
3.		HLMT13	Operations Research	Employability
4.		HLMT13L	Operations Research Lab	Skill development & Employability
5.		HLMT14	Differential Equations	Entrepreneurship
6.		HLMT1E1	Mathematical Modelling	Skill development
7.	II	HLMT21	Algebra II	Employability
8.		HLMT22	Analysis II	Skill development
9.		HLMT23	Topology	Employability
10.		HLMT24	Graph Theory	Employability
11.		HLMT2E	Optimization Techniques	Skill development
12.		HLMT31	Theory of Fields	Skill development
13.		HLMT32	Advanced Numerical Methods	Skill development & Employability
14.		HLMT32L	Advanced Numerical Methods Lab	Skill development & Employability
15.	III	HLMT33	Functional Analysis I	Skill development
16.		HLMT34	Advanced Topology	Skill development
17.		MDMT3E1	CSIR-UGC-NET-PRELIMS-MATHEMATICS	Skill development & Employability
18.	IV	HLMT41	Fuzzy Algebra	Skill Development



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2017 AND LATER**

19.		HLMT42	Complex Analysis	Employability
20.		HLMT43	Mathematical Statistics	Skill Development
21.		HLMT4E1	Functional Analysis II	Skill Development
22.		HLMT4P	Project and Viva Voce	Skill Development


Signature of the HOD with Seal

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B.Sc MATHEMATICS WITH COMPUTER
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DEPARTMENT OF MATHEMATICS

B.SC. MATHEMATICS [CA]

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2015 AND LATER**

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COURSES FOCUSING ON EMPLOYABILITY, ENTREPRENEURSHIP AND SKILL DEVELOPMENT

S. No	Semester	Course Code	Course Title	Focus on employability, entrepreneurship and skill development
7.	I	15UMC11	Calculus and Trigonometry	Employability
8.		15UMC12	AG3D and Vector Calculus	Employability
9.		15UMC1A	Statistics I	Skill development
10.	II	15UMC21	Theory of Equations	Skill development
11.		15UMC22	Numerical Methods	Skill development
12.		15UMC2A	Statistics II	Skill development
13.		15UMC2AL	Statistics Lab	Entrepreneurship
14.	III	15UMC31	Differential equations	Employability
15.		15UMC32	Linear Programming	Employability
23.		15UMC3A	Programming in C	Skill development
24.		15UMC3L	Applied Mathematics Lab	Entrepreneurship
25.		15UMC3N	Numerical Aptitude I	Skill development
26.	IV	15UMC41	Modern Algebra	Employability
27.		15UMC42	Sequences and Series	Employability
28.		15UMC4A	Programming in C++	Employability
29.		15UMC4AL	Programming in C++ Lab	Entrepreneurship
30.		15UMC4N	Numerical Aptitude II	Skill development
31.	V	15UMC51	Real Analysis	Employability
32.		15UMC52	Programming in Java	Employability
33.		15UMC5L	Programming in Java lab	Entrepreneurship
34.		15UMC5E1 / 15UMC5E2/	Graph Theory / Number theory and Cryptography	Employability
35.		15UMC5E3/ 15UMC5E4	Discrete Mathematics / Modern Applied Algebra	Employability
36.	VI	15UMC61	Complex Analysis	Employability
37.		15UMC62	Linear Algebra	Skill development



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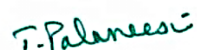
DEPARTMENT OF MATHEMATICS

B.SC. MATHEMATICS [CA]

**COURSES FOCUS ON EMPLOYABILITY, ENTREPRENEURSHIP AND SKILL DEVELOPMENT
2015 AND LATER**

38.		15UMC6P	Project	Skill development
39.		15UMC6L	Web Designing lab	Entrepreneurship
40.		15UMC6E1/ 15UMC6E2/ 15UMC6E3	Operations Research / Applied Statistics/ Automata and formal languages	Skill development
41.		15UJO69	Mathematical Statistics	Employability
42.		15UJO69L	Mathematical Statistics Lab	Employability


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DEVELOPMENT
B.Sc MATHEMATICS – 2014 AND LATER**



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2014 AND LATER**

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DEPARTMENT OF MATHEMATICS
B.SC MATHEMATICS – PROGRAMME CODE: 14UMT
(For those who have joined in June 2014 and later)**

COURSES FOCUSING ON EMPLOYABILITY, ENTREPRENEURSHIP AND SKILL DEVELOPMENT

S. No	Semester	Course Code	Course Title	Focus on employability, entrepreneurship and skill development
1.	I	14UMT11	Calculus	Employability
2.		14UMT12	Analytical Geometry of 3D	Employability
3.	II	14UMT21	Theory of Equations	Skill development
4.		14UMT22	Sequences and Series	Skill development
5.	III	14UMT31	Graph Theory	Employability
6.		14UMT32	Differential equations	Employability
1.		14UMT3A	Programming in C	Skill development
2.		14UMT3AL	Programming in C Lab	Entrepreneurship
3.		14UMT3N	Statistical Methods	Skill development
4.		14UMT3A1	Allied Courses for Chemistry and Physics Major Students Allied Mathematics I	Skill development
5.		14UMT41	Modern Algebra	Employability
6.	IV	14UMT42	Vector Calculus and Trigonometry	Employability
7.		14UMT4A	Programming in C++	Employability
8.		14UMT4AL	Programming in C++ Lab	Entrepreneurship
9.		14UMT4N	Mathematical Methods	Skill development
10.		14UMT4A1	Allied Courses for Chemistry and Physics Major Students Allied Mathematics II	Skill development
11.		V	14UMT51	Statistics
12.	14UMT52		Linear Programming	Employability
13.	14UMT52L		Linear Programming Lab	Entrepreneurship
14.	14UMT5E1 / 14UMT5E2/		Real Analysis / Number theory and Cryptography/	Employability
15.	14UMT5E3/		Discrete Mathematics/Modern	Employability



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DEVELOPMENT
2014 AND LATER**

		14UMT5E4	Applied Algebra	
16.	VI	14UMT61	Linear Algebra	Employability
17.		14UMT62	Operations Research	Skill development
18.		14UMT63	Numerical Methods	Skill development
19.		14UMT63L	Numerical Methods Lab	Entrepreneurship
20.		14UMT6E1/ 14UMT6E2/ 14UMT6E3	Complex Analysis / Applied Statistics/ Automata and formal languages	Skill development
21.		14UJO66	Career Mathematics	Employability
22.		14UJ066L	Career Mathematics Lab	Employability

S. Subudra
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S. No	Semester	Course Code	Course Title	Focus on employability, entrepreneurship and skill development
1.	I	14PMT11	Algebra I	Employability
2.		14PMT12	Principles of Analysis	Employability
3.		14PMT13	Operations Research	Employability
4.		14PMT13L	Operations Research Lab	Skill development & Employability
5.		14PMT14	Differential Equations	Employability
6.		14PMT1E1/ 14PMT1E2/1 4PMT1E3	Fuzzy Theory and its applications /Advanced Analysis /Number theory	Skill development
7.	II	14PMT21	Algebra II	Employability
8.		14PMT22	Advanced Graph theory	Skill development
9.		14PMT23	Topology	Employability
10.		14PMT24	Statistical Techniques	Employability
11.		14PMT2E	Numerical Methods and Solutions	Skill development
12.		14PMT31	Theory of Fields	Skill development
13.		14PMT32	Advanced Numerical Methods	Skill development & Employability
14.	III	14PMT32L	Advanced Numerical Methods Lab	Skill development & Employability
15.		14PMT33	Functional Analysis I	Skill development
16.		14PMT34	Advanced Topology	Skill development
17.		14PMT3E1	CSIR-UGC-NET-PRELIMS-MATHEMATICS	Skill development & Employability
18.		IV	14PMT41	Commutative Algebra



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DEVELOPMENT**

2014 AND LATER

19.		14PMT42	Number theory and Cryptography	Employability
20.		14PMT43	Mathematical Statistics	Skill Development
21.		14PMT4E2/1 4PMT4E3	Functional Analysis II	Skill Development
22.		14PMT4P	Project	Skill Development

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