



**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**

**1.1.2. REVISION OF SYLLABUS**

**PERCENTAGE OF SYLLABUS REVISION  
2020 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,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION**

**B.Sc. MATHEMATICS (COMPUTER APPLICATIONS)**

**JUNE 2020 AND LATER**

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),  
SIVAKASI.

DEPARTMENT OF MATHEMATICS

B.SC MATHEMATICS WITH COMPUTER APPLIATIONS – PROGRAMME CODE: BDMC

(For those who have joined in June 2020 and later)

S.No.	Components	Number of courses having changes
1.	Part I	4
2.	Part II	2
3.	Part III	6
4.	Part IV	4
Total		16

Total Number of Courses having changes :16

Total Number of Courses :44

Percentage of Revision :36.4

Signature of the HOD with Seal

Head of the Dept. of Mathematics,  
The Standard Fireworks Rajaratnam  
College for Women, Sivakasi.

Principal

PRINCIPAL  
The Standard Fireworks  
Rajaratnam College  
for Women,  
SIVAKASI



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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION  
B.Sc. MATHEMATICS (COMPUTER APPLICATIONS)  
JUNE 2020 AND LATER**

**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),  
SIVAKASI  
DEPARTMENT OF MATHEMATICS  
M.Sc Mathematics  
Code: BDMC  
June 2020 and later**

S.No	Semester	Course Code	Course Title
1.	II	BDMC22	Numerical Methods
2.	III	BDMC31	Mechanics
3.	III	BDMC32	Differential Equations
4.	IV	BDMC4A	Programming in Python
5.	IV	BDMC4AL	Programming in Python Lab
6.	IV	BDMC4DSL	Mathematica Lab
7.	IV	BDMC5V	Internship/On-The Job Training

**Signature of the HOD**

Head of the Dept. of Mathematics,  
The Standard Fireworks Rajaratnam  
College for Women, Sivakasi.

**Signature of the Principal**

**PRINCIPAL**  
The Standard Fireworks  
Rajaratnam College  
for Women,  
SIVAKASI



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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION  
B.Sc. MATHEMATICS (COMPUTER APPLICATIONS)  
JUNE 2020 AND LATER**

**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI  
B.Sc. Mathematics with Computer Applications- Allotment of Hours and Credits  
(For those who have joined in June 2020 and later)**

Subject			Semester						Total No. of Credits
			I	II	III	IV	V	VI	
<b>Language Courses</b>									
Part I – Tamil /Hindi/French			6(3)	6(3)	6(3)	6(3)	-	-	12
Part II - English			6(3)	6(3)	6(3)	6(3)	-	-	12
<b>Part III – Major, Major Elective and Allied Courses</b>									
Major	Theory	Course I	5(4)	4 (4)	6(6)	4(4)	6(5)	6(5)	
		Course II	5(4)	4 (4)	6(6)	4(3)	5(4)	5(4)	
		Project	-	-	-	-	-	6(5)	
	Practical	Lab	-	-	-	-	2(2)	2(2)	
Internship/On-The Job Training		-	-	-	-	(1)	-		
Major Elective	Theory	Course I	-	-	-	-	6(5)	6(5)	
		Course II	-	-	-	-	6(4)	-	
Allied		Theory	6 (5)	4(4)	4(4)	4(4)	-	-	
		Practical	-	2(1)	2(1)	2(1)	-	-	
<b>Total No. of Credits</b>			<b>13</b>	<b>13</b>	<b>17</b>	<b>12</b>	<b>21</b>	<b>21</b>	<b>97</b>
<b>Part IV Ability Enhancement Courses</b>									
<b>Value Added Courses</b>									
1.Environmental Studies			2(2)	-	-	-	-	-	
2.Value Education & Gender Studies			-	2(2)	-	-	-	-	
<b>Non Major Elective Courses</b>									
1. NME I			-	-	-	2(2)	-	-	
2. NME II			-	-	-	-	2(2)	-	
<b>Skilled Based Courses</b>									
1. Computer literacy			-	2(2)	-	-	-	-	
2. Discipline Specific Course			-	-	-	2(2)	-	-	
3. Career Guidance			-	-	-	-	2(2)	-	
4. Self Employment / Job Oriented Courses – Theory			-	-	-	-	-	2(2)	
5. Self Employment / Job Oriented Courses – Practical / Project			-	-	-	-	-	2(2)	
Library and Information Science			-	-	-	-	1(*)	1(*)	
<b>Total No. of Credits</b>			<b>2</b>	<b>4</b>	<b>-</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>18</b>
<b>Part V: Social Awareness Programme and Physical Education</b>									
National Service Scheme / National Cadet Corps / Extension Activities / Youth Red Cross and Blood Donors Club / Social Service League / Red Ribbon Club / Citizen Consumer Club / Environment Club / Physical Education			1(*)	1(1)	-	-	-	-	1
<b>Total Credits</b>								<b>140</b>	

*T. Rajaseeni*  
Principal  
PRINCIPAL  
The Standard Fireworks  
Rajaratnam College  
for Women,  
SIVAKASI

*S. K. Aravindan*  
Head of the Department



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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION  
B.Sc. MATHEMATICS (COMPUTER APPLICATIONS)  
JUNE 2020 AND LATER**

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI DEPARTMENT OF MATHEMATICS B.Sc. MATHEMATICS WITH COMPUTER APPLICATIONS PROGRAMME (For those who have joined in 2020 and later) OUT COME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM PROGRAMME CODE – BDMC PROGRAMME SCHEME								
Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Marks Allotted		
						Internal	External	Total
<b>Semester I</b>								
Part I	BDGT11/ BDGH11/ BDGF11	சங்க இலக்கியமும் உரைநடை யும்/ Hindi Language Course – I/ French Language Course – I	6	3	3	40	60	100
Part II	BDGE11	English for Communication-I	6	3	3	40	60	100
Part III	BDMC11	Major Courses Calculus and Trigonometry	5	4	3	40	60	100
	BDMC12	AG3D and Vector Calculus	5	4	3	40	60	100
	BDMC1A	Allied Course Statistics I	6	5	3	40	60	100
Part IV	BDES11	Value Added Course Environmental Studies	2	2	2	40	60	100
<b>Total</b>			<b>30</b>	<b>21</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>600</b>
<b>Semester II</b>								
Part I	BDGT21/ BDGH21/ BDGF21	அற இலக்கியமும் தன்முன் நேற்றக் கட்டுரைகளும் / Hindi Language Course -II / French Language Course – II	6	3	3	40	60	100
Part II	BDGE21	English for Communication-II	6	3	3	40	60	100
Part III	BDMC21	Major Courses Theory of Equations	4	4	3	40	60	100
	BDMC22	Numerical Methods	4	4	3	40	60	100
	BDMC2A	Allied Courses Statistics II	4	4	3	40	60	100
	BDMC2AL	Statistics Lab	2	1	3	50	50	100
Part IV	BDVG21	Value Added Course Value Education & Gender Studies	2	2	2	40	60	100
	BDCL23	Skill Based Course Introduction to Computers & MS Office	2	2	2	40	60	100
Part V	BDSA2	Social Awareness Programme and Physical Education	-	1	-	-	-	-
<b>Total</b>			<b>30</b>	<b>24</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>800</b>
<b>Semester III</b>								
Part I	BDGT31/ BDGH31/ BDGF31	சமய இலக்கியமும் நாடகமும்/ Hindi Language Course –III / French Language Course – III	6	3	3	40	60	100
Part II	BDGE31	English for Enrichment-I	6	3	3	40	60	100
Part III	BDMC31	Major Courses Mechanics	6	6	3	40	60	100
	BDMC32	Differential Equations	6	6	3	40	60	100
	BDMC3A	Allied Courses Programming in C& C++	4	4	3	40	60	100
	BDMC3AL	Programming in C& C++ Lab	2	1	3	50	50	100
<b>Total</b>			<b>30</b>	<b>23</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>600</b>





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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION**

**B.Sc. MATHEMATICS (COMPUTER APPLICATIONS)**

**JUNE 2020 AND LATER**

Semester IV								
Part I	BDGT41/ BDGH41/ BDGF41	கவிலைஇலக்கியமும்சிறுகதையும் /Hindi Language Course -IV/ French Language Course – IV	6	3	3	40	60	100
	BDGE41	English for Enrichment-II	6	3	3	40	60	100
Part II	BDMC41	Major Courses Graph Theory	4	4	3	40	60	100
	BDMC42	Sequences and Series	4	3	3	40	60	100
Part III	BDMC4A	Allied Courses Programming in Python	4	4	3	40	60	100
	BDMC4AL	Programming in Python Lab	2	1	3	50	50	100
Part IV	BD4N	Non Major Elective Course	2	2	2	40	60	100
	BDMC4DSL	Skill Based Course Discipline Specific Course Mathematica Lab	2	2	3	50	50	100
<b>Total</b>			<b>30</b>	<b>22</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>800</b>
Semester V								
Part III	BDMC51	Major Courses Real Analysis	6	5	3	40	60	100
	BDMC52	Modern Algebra	5	4	3	40	60	100
	BDMC5L	MATLAB	2	2	3	50	50	100
	BDMC5E1/ BDMC5E2	Major Elective Courses Linear Programming/ Fourier Analysis	6	5	3	40	60	100
	BDMC5E3/ BDMC5E4	Discrete Mathematics/ Modern Applied Algebra	6	4	3	40	60	100
Part IV	BDMC5V	Internship/On-The Job Training	-	1	-	-	100	100
	BD5N	Non Major Elective Course	2	2	2	40	60	100
	BDCG51	Skill Based Course Career Guidance	2	2	2	40	60	100
-	-	Library and Information Science	1	-	-	-	-	-
<b>Total</b>			<b>30</b>	<b>25</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>800</b>
Study tour/Field visit is mandatory for the course BDMC5E1-Linear Programming								
Semester VI								
Part III	BDMC61	Major Courses Complex Analysis	6	5	3	40	60	100
	BDMC62	Linear Algebra	5	4	3	40	60	100
	BDMC6P	Project	6	5	-	-	100	100
	BDMC6L	Maple Lab	2	2	3	50	50	100
Part IV	BDMC6E1/ BDMC6E2	Major Elective Course Operations Research / Automata and Formal Languages	6	5	3	40	60	100
	BDSE/ BDJO	Skill Based Courses (Open to all) Self Employment/ Job Oriented Courses – Theory	2	2	2	40	60	100
	BDSE/ BDJO	Self Employment/ Job Oriented Courses – Practical/Field work/Project	2	2	3	50	50	100
	-	-	Library and Information Science	1	-	-	-	-
<b>Total</b>			<b>30</b>	<b>25</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>700</b>

*T. Palavesi*  
Principal  
PRINCIPAL  
The Standard Fireworks  
Rajaratnam College  
for Women,  
SIVAKASI

*S. Subida*  
Head of the Department



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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION  
B.Sc. MATHEMATICS (COMPUTER APPLICATIONS)  
JUNE 2020 AND LATER**

**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI  
DEPARTMENT OF MATHEMATICS  
COURSES OFFERED FOR OTHER MAJOR STUDENTS**

Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Marks Allotted		
						Internal	External	Total
Semester IV								
Part IV	BDMC4N	Non Major Elective Course Numerical Aptitude I	2	2	2	40	60	100
Semester V								
Part IV	BDMC5N	Non Major Elective Course Numerical Aptitude II	2	2	2	40	60	100
Semester VI								
Part IV	BDJO70	Skill Based Courses – (Open to all) Self Employment Courses Mathematical Statistics	2	2	2	40	60	100
	BDJO70L	Mathematical Statistics Lab	2	2	3	50	50	100

*T. Palavesi*  
Principal

PRINCIPAL  
The Standard Fireworks  
Rajaratnam College  
for Women,  
SIVAKASI

*D. Subudhi*  
Head of the Department



**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**

**1.1.2. REVISION OF SYLLABUS**

**PERCENTAGE OF SYLLABUS REVISION  
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,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION**

**B.Sc. MATHEMATICS COMPUTER APPLICATIONS**

**JUNE 2017 AND LATER**

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

**DEPARTMENT OF MATHEMATICS  
B.SC MATHEMATICS – PROGRAMME CODE: GLMC  
(For those who have joined in June 2017 and later)**

S.No.	Components	Number of courses having changes
1.	Part I	4
2.	Part II	4
3.	Part III	4
4.	Part IV	4
<b>Total</b>		<b>16</b>

Total Number of Courses having changes :16

Total Number of Courses :43

Percentage of Revision :37.2

Signature of the HOD with Seal

Head of the Dept. of Mathematics,  
The Standard Fireworks Rajaratnam  
College for Women, Sivakasi.

Principal  
**PRINCIPAL**  
The Standard Fireworks  
Rajaratnam College  
for Women,  
**SIVAKASI**



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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION  
B.Sc. MATHEMATICS (COMPUTER APPLICATIONS)  
JUNE 2017 AND LATER**

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

**DEPARTMENT OF MATHEMATICS  
B.Sc Mathematics with Computer Application  
Code: GLMC  
June 2017 and later**

S.No	Semester	Course Code	Course Title
1.	II	GLMC2AL	Statistics Lab
2.	IV	GLMC4DS	Combinatorics
3.	V	GLMT5E2	Fourier Analysis
4.	VI	GLMC62	Number theory
5	VI	GLMC6L	MATLAB

  
**Signature of the HOD**

Head of the Dept. of Mathematics,  
The Standard Fireworks Rajaratnam  
College for Women, Sivakasi.

  
**Signature of the Principal  
PRINCIPAL  
The Standard Fireworks  
Rajaratnam College  
for Women,  
SIVAKASI**



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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION  
B.Sc. MATHEMATICS (COMPUTER APPLICATIONS)  
JUNE 2017 AND LATER**

The Standard Fireworks Rajaratnam College for Women, Sivakasi  
B.Sc. Mathematics with Computer Applications- Allotment of Hours and Credits  
(For those who joined in June 2017 and later)

Subject		Semester						Total No. of Credits	
		I	II	III	IV	V	VI		
Part I – Tamil Language Course		6(3)	6(3)	6(3)	6(3)	-	-	12	
Part II - English Language Course		6(3)	6(3)	6(3)	6(3)	-	-	12	
<b>Part III – Major and Allied Courses :</b>									
Major	Theory	Course I	5(4)	4 (4)	5(5)	4(4)	6(5)	6(5)	
		Course II	5(4)	4 (4)	5(5)	4(3)	5(4)	5(4)	
		Course III	-	-	-	-	6(5)	6(5)	
		Course IV	-	-	-	-	6(5)	-	
	Project	-	-	-	-	-	6(5)		
Practical	Lab	Lab	-	-	-	2(2)	2(2)		
Allied		Theory	6 (5)	4(4)	4(4)	4(4)	-	-	
		Practical	-	2(1)	2(1)	2(1)	-	-	
<b>Total No. of Credits</b>		<b>16(13)</b>	<b>14(13)</b>	<b>16(15)</b>	<b>14(12)</b>	<b>25(21)</b>	<b>25(21)</b>	<b>95</b>	
<b>Part IV Value Added /Non Major/ Skilled based Courses</b>									
<b>Value Added Courses</b>									
Peace Education		2(2)	-	-	-	-	-		
Environmental Studies		-	2(2)	-	-	-	-		
<b>Non Major Courses</b>									
i) NME I		-	-	2(2)	-	-	-		
ii) NME II		-	-	-	2(2)	-	-		
<b>Skilled based Courses</b>									
1. Computer literacy		-	2(2)	-	-	-	-		
2. Discipline Specific Course		-	-	-	2(2)	-	-		
3. Career Guidance and Subject Viva		-	-	-	-	2(2)	-		
4. Women Studies		-	-	-	-	2(2)	-		
5. Self Employment / Job Oriented Courses – Theory		-	-	-	-	-	2(2)		
6. Self Employment / Job Oriented Courses – Practical / Project		-	-	-	-	-	2(2)		
Library and Information Science		-	-	-	-	1(*)	1(*)		
<b>Total No. of Credits</b>		<b>2</b>	<b>4</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>20</b>	
<b>Part V: Extension Activities–Physical Education &amp; Social Awareness Programme</b>									
NSS/NCC/Physical Education/ Extension Activities/Youth Red Cross/Social Service League/Red Ribbon Club/Citizen Consumer Club/Environmental Club		(*)	(1)	-	-	-	-	1	
<b>Total</b>								<b>140</b>	

T. Palavesu  
Principal  
The Standard Fireworks  
Rajaratnam College  
for Women,  
SIVAKASI

S. Subudra  
Head of the Department



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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION  
B.Sc. MATHEMATICS (COMPUTER APPLICATIONS)  
JUNE 2017 AND LATER**

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI DEPARTMENT OF MATHEMATICS B.Sc. MATHEMATICS WITH COMPUTER APPLICATIONS PROGRAMME (For those who have joined in 2017 and later) OUTCOME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM PROGRAMME CODE – GLMC PROGRAMME SCHEME									
Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Marks Allotted			
						Internal	External	Total	
<b>Semester I</b>									
Part I	GLGT11/ GLGH11/ GLGF11	சங்க இலக்கியமும் உரைநடைமும்/ Hindi Language Course – I / French Language Course – I	6	3	3	25	75	100	
Part II	GLEN11	Communicative English-I	6	3	3	25	75	100	
Part III	GLMC11	<b>Major Courses</b> Calculus and Trigonometry	5	4	3	25	75	100	
	GLMC12	AG3D and Vector Calculus	5	4	3	25	75	100	
	GLMC1A	<b>Allied Course</b> Statistics I	6	5	3	25	75	100	
Part IV	GLPE11	<b>Value Added Course</b> Peace Education	2	2	2	25	75	100	
<b>Total</b>			<b>30</b>	<b>21</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>600</b>	
<b>Semester II</b>									
Part I	GLGT21/ GLGH21/ GLGF21	காந்திய இலக்கியமும் புதினமும்/ Hindi Language Course -II / French Language Course - II	6	3	3	25	75	100	
Part II	GLEN21	Communicative English-II	6	3	3	25	75	100	
Part III	GLMC21	<b>Major Courses</b> Theory of equations	4	4	3	25	75	100	
	GLMC22	Numerical Methods	4	4	3	25	75	100	
	GLMC2A	<b>Allied Courses</b> Statistics II	4	4	3	25	75	100	
	GLMC2AL	Statistics Lab	2	1	3	40	60	100	
Part IV	GLES21	<b>Value Added Course</b> Environmental studies	2	2	2	25	75	100	
	GLCL23	<b>Skill Based Course</b> Introduction to Computers and MS office	2	2	2	25	75	100	
Part V	-	Extension Activities – Physical Education and Social Awareness Programme	-	1	-	-	-	100	
<b>Total</b>			<b>30</b>	<b>24</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>900</b>	
<b>Semester III</b>									
Part I	GLGT31/ GLGH31/ GLGF31	சமய இலக்கியமும் நாடகமும்/ Hindi Language Course -III / French Language Course - III	6	3	3	25	75	100	
Part II	GLEN31	Communicative English-III	6	3	3	25	75	100	
Part III	GLMC31	<b>Major Courses</b> Modern Algebra	5	5	3	25	75	100	
	GLMC32	Differential equations	5	5	3	25	75	100	





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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION**

**B.Sc. MATHEMATICS (COMPUTER APPLICATIONS)**

**JUNE 2017 AND LATER**

	GLMC3A	Allied Courses Programming in C	4	4	3	25	75	100
	GLMC3AL	Programming in C Lab	2	1	3	40	60	100
Part IV	GL3N	Non Major Elective Course	2	2	2	25	75	100
<b>Total</b>			<b>30</b>	<b>23</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>700</b>
<b>Semester IV</b>								
Part I	GLGT41/ GLGH41/ GLGF41	கனிதை இலக்கியமும் சிறுகதைதரம்/ Hindi Language Course -IV/ French Language Course - IV	6	3	3	25	75	100
Part II	GLEN41	Communicative English-IV	6	3	3	25	75	100
Part III	GLMC41	Major Courses Graph Theory	4	4	3	25	75	100
	GLMC42	Sequences and Series	4	3	3	25	75	100
	GLMC4A	Allied Courses Programming in C++	4	4	3	25	75	100
	GLMC4AL	Programming in C++ Lab	2	1	3	40	60	100
Part IV	GL4N	Non Major Elective Course	2	2	2	25	75	100
	GLMC4DS	Skill Based Course Discipline Specific Course Combinatorics	2	2	2	25	75	100
<b>Total</b>			<b>30</b>	<b>22</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>800</b>
<b>Semester V</b>								
Part III	GLMC51	Major Courses Real Analysis	6	5	3	25	75	100
	GLMC52	Linear Algebra	5	4	3	25	75	100
	GLMC5L	Maple Lab	2	2	3	40	60	100
	GLMC5E1/ GLMC5E2/	Major Elective Courses Linear Programming / Laplace and Fourier transforms	6	5	3	25	75	100
Part IV	GLMC5E3/ GLMC5E4	Discrete Mathematics/ Modern Applied Algebra	6	5	3	25	75	100
	GLGV51	Skill Based Course Career Guidance and Subject Viva	2	2	2	25	75	100
	GLWS51	women Studies	2	2	2	25	75	100
	-	Library and Information Science	1	-	-	-	-	-
<b>Total</b>			<b>30</b>	<b>25</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>700</b>
<b>Semester VI</b>								
Part III	GLMC61	Major Courses Complex Analysis	6	5	3	25	75	100
	GLMC62	Number theory	5	4	3	25	75	100
	GLMC6P	Project	6	5	-	-	100	100
	GLMC6L	MATLAB	2	2	3	40	60	100
Part IV	GLMC6E1/ GLMC6E2/ GLMC6E3	Major Elective Course Operations Research / Applied Statistics/ Automata and formal languages	6	5	3	25	75	100
	GLSE/GLJ O	Skill Based Courses (Open to all) Self Employment/ Job Oriented courses - Theory	2	2	2	25	75	100





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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION  
B.Sc. MATHEMATICS (COMPUTER APPLICATIONS)  
JUNE 2017 AND LATER**

	GLSEL/ GLJOL	Self Employment/ Job Oriented courses – Practical/Field work/Project	2	2	3	40	60	100
	-	Library and Information Science	1	-	-	-	-	-
		<b>Total</b>	<b>30</b>	<b>25</b>				<b>700</b>

*T. Polavara*  
Principal

**PRINCIPAL**  
The Standard Fireworks  
Rajaratnam College  
for Women,  
SIVAKASI

*D. Roshida*  
Head of the Department



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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS  
PERCENTAGE OF SYLLABUS REVISION  
B.Sc. MATHEMATICS (COMPUTER APPLICATIONS)  
JUNE 2017 AND LATER**

**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI  
DEPARTMENT OF MATHEMATICS**

**COURSES OFFERED FOR OTHER MAJOR STUDENTS**

Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Marks Allotted		
						Internal	External	Total
<b>Semester III</b>								
Part IV	GLMC3N	Non Major Elective Course Numerical Aptitude I	2	2	3	25	75	100
<b>Semester IV</b>								
Part IV	GLMC4N	Non Major Elective Course Numerical Aptitude II	2	2	3	25	75	100
<b>Semester VI</b>								
Part IV	GLJO70	Skill Based Courses (Open to all) Mathematical Statistics	2	2	3	25	75	100
	GLJ070L	Mathematical Statistics- Lab	2	2	3	40	60	100

*T. Polaveni*  
Principal

**PRINCIPAL**  
Standard Fireworks  
Rajaratnam College  
for Women,  
SIVAKASI

*D. Subudra*  
Head of the Department



**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**

**1.1.2. REVISION OF SYLLABUS**

**PERCENTAGE OF SYLLABUS REVISION  
2015 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,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS**

**B.Sc. MATHEMATICS COMPUTER APPLICATIONS**

**NEW PROGRAMME INTRODUCED**

**JUNE 2015 AND LATER**

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

**SIVAKASI.**

**DEPARTMENT OF MATHEMATICS**

**B.Sc. MATHEMATICS WITH COMPUTER APPLICATIONS**

**NEW PROGRAMME INTRODUCED**

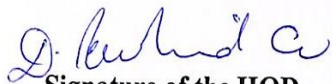
**PROGRAMME CODE: 15UMC**

(For those who have joined in June 2015 and later)

Total Number of New Courses :43

Total Number of Courses :43

Percentage :100

  
**Signature of the HOD**

Head of the Dept. of Mathematics,  
The Standard Fireworks Rajaratnam  
College for Women, Sivakasi.

  
**Principal**

**PRINCIPAL**  
**The Standard Fireworks**  
**Rajaratnam College**  
**for Women,**  
**SIVAKASI**



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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS**

**B.Sc. MATHEMATICS COMPUTER APPLICATIONS**

**NEW PROGRAMME INTRODUCED**

**JUNE 2015 AND LATER**

**The Standard Fireworks Rajaratnam College for Women, Sivakasi  
B.Sc. Mathematics with Computer Applications- Allotment of Hours and Credits  
(For those who joined in June 2015 and later)**

Subject		Semester						Total No. of Credits	
		I	II	III	IV	V	VI		
Part I – Tamil Language Course		6(3)	6(3)	6(3)	6(3)	-	-	12	
Part II - English Language Course		6(3)	6(3)	6(3)	6(3)	-	-	12	
<b>Part III – Major and Allied Courses :</b>									
Major	Theory	Course I	6(5)	4 (3)	5(5)	5(5)	6(5)	6(5)	
		Course II	6(5)	4 (3)	4(4)	3(2)	4(4)	5(5)	
		Course III	-	-	-	-	6(5)	6(5)	
		Course IV	-	-	-	-	6(5)	-	
		Project	-	-	-	-	-	6(5)	
	Practical	Lab	-	-	3(2)	-	3(2)	2(1)	
Allied		Theory	4 (4)	4(4)	4(4)	4(4)	-	-	
		Practical	-	2(2)	-	2(1)	-	-	
<b>Total No. of Credits</b>		<b>16(14)</b>	<b>14(12)</b>	<b>16(15)</b>	<b>14(12)</b>	<b>25(21)</b>	<b>25(21)</b>	<b>95</b>	
<b>Part IV Non Major/Value Added Courses</b>									
Peace Education		2(2)	-	-	-	-	-		
Environmental Studies		-	2(2)	-	-	-	-		
I. NME I		-	-	2(2)	-	-	-		
II. NME II		-	-	-	2(2)	-	-		
1. Computer literacy		-	2(2)	-	-	-	-		
2. Soft Skill enhancement		-	-	-	2(2)	-	-		
3.. Career Guidance and Subject Viva		-	-	-	-	2(2)	-		
4. Women Studies		-	-	-	-	2(2)	-		
5. Skill Based Courses : Self Employment / Job Oriented Courses – Theory		-	-	-	-	-	2(2)		
6. Skill Based Courses : Self Employment / Job Oriented Courses – Practical / Field work / Project		-	-	-	-	-	2(2)		
Library and Information Science		-	-	-	-	1(*)	1(*)		
<b>Total No. of Credits</b>		<b>2</b>	<b>4</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>4</b>		<b>20</b>
<b>Part V: Extension Activities–Physical Education &amp; Social Awareness Programme</b>									
NSS/NCC/Physical Education/Extension Activities/Youth Red Cross/Social Service League		(*)	(1)	-	-	-	-	<b>1</b>	
<b>Total</b>								<b>140</b>	

*P. Palavesai*  
Principal

**PRINCIPAL**  
The Standard Fireworks  
Rajaratnam College  
for Women,  
SIVAKASI

*D. K. K. C.*  
Head of the Department





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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS**

**B.Sc. MATHEMATICS COMPUTER APPLICATIONS**

**NEW PROGRAMME INTRODUCED**

**JUNE 2015 AND LATER**

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI DEPARTMENT OF MATHEMATICS B.Sc. MATHEMATICS PROGRAMME (For those who have joined in 2015 and later) CHOICE BASED CREDIT SYSTEM PROGRAMME CODE – UMC PROGRAMME SCHEME								
Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Marks Allotted		
						Internal	External	Total
<b>Semester I</b>								
Part I	14UGT11/ 14UGH11/ 14UGF11	தற்கால இலக்கியம் / Hindi Language Course – I/ French Language Course - I	6	3	3	25	75	100
Part II	14UGE11	Communicative English-I	6	3	3	25	75	100
Part III	15UMC11	Major Courses Calculus and Trigonometry	6	5	3	25	75	100
	15UMC12	AG3D and Vector Calculus	6	5	3	25	75	100
	15UMC1A	Allied Course Statistics I	4	4	3	25	75	100
Part IV	14UPE11	Value Added Course Peace Education	2	2	2	25	75	100
<b>Total</b>			<b>30</b>	<b>22</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>600</b>
<b>Semester II</b>								
Part I	14UGT21/ 14UGH21/ 14UGF21	புத்தி இலக்கியம் / Hindi Language Course -II / French Language Course - II	6	3	3	25	75	100
Part II	14UGE21	Communicative English-II	6	3	3	25	75	100
Part III	15UMC21	Major Courses Theory of equations	4	3	3	25	75	100
	15UMC22	Numerical Methods	4	3	3	25	75	100
	15UMC2A	Allied Courses Statistics II	4	4	3	25	75	100
	15UMC2AL	Statistics Lab	2	2	3	40	60	100
Part IV	14UES21	Value Added Course Environmental studies	2	2	2	25	75	100
	14UCL23	Value Added Course Introduction to Computers and MS office	2	2	2	25	75	100
Part V	-	Extension Activities – Physical Education and Social Awareness Programme		1				100
<b>Total</b>			<b>30</b>	<b>23</b>				<b>900</b>
<b>Semester III</b>								
Part I	14UGT31/ 14UGH31/ 14UGF31	காப்பிய இலக்கியம்/ Hindi Language Course –III / French Language Course - III	6	3	3	25	75	100
Part II	14UGE31	Communicative English-III	6	3	3	25	75	100



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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS**

**B.Sc. MATHEMATICS COMPUTER APPLICATIONS**

**NEW PROGRAMME INTRODUCED**

**JUNE 2015 AND LATER**

<b>Part III</b>	15UMC31	Major Courses Differential equations	5	5	3	25	75	100
	15UMC32	Linear Programming	4	4	3	25	75	100
	15UMC3A	Allied Course Programming in C	4	4	3	25	75	100
	15UMC3L	Applied Mathematics Lab	3	2	3	40	60	100
<b>Part IV</b>	14U3N/ 15U3N	Non Major Elective I	2	2	3	25	75	100
<b>Total</b>			<b>30</b>	<b>23</b>				<b>700</b>
<b>Semester IV</b>								
<b>Part I</b>	14UGT41/ 14UGH41/ 14UGF41	சங்கீதலக்கியம் / Hindi Language Course -IV/ French Language Course - IV	6	3	3	25	75	100
<b>Part II</b>	14UGE41	Communicative English-IV	6	3	3	25	75	100
<b>Part III</b>	15UMC41	Major Courses Modern Algebra	5	5	3	25	75	100
	15UMC42	Sequences and Series	3	2	3	25	75	100
	15UMC4A	Allied Course Programming in C++	4	4	3	25	75	100
	15UMC4AL	Programming in C++ Lab	2	1	3	40	60	100
<b>Part IV</b>	14U4N /15U4N	Non Major Elective II	2	2	3	25	75	100
	14USK41	Value Added Course Soft Skill Enhancement	2	2	-	40	60	100
<b>Total</b>			<b>30</b>	<b>22</b>				<b>800</b>
<b>Semester V</b>								
<b>Part III</b>	15UMC51	Major Courses Real analysis	6	5	3	25	75	100
	15UMC52	Programming in Java	4	4	3	25	75	100
	15UMC5L	Programming in Java lab	3	2	3	40	60	100
	15UMC5E1 / 15UMC5E2/	Major Elective Courses Graph Theory / Number theory and Cryptography/	6	5	3	25	75	100
	15UMC5E3/ 15UMC5E4	Discrete Mathematics / Modern Applied Algebra	6	5	3	25	75	100
<b>Part IV</b>	14UGV51/ 15UGV51	Value Added Course Career Guidance and Subject Viva	2	2	2	25	75	100
	14UWS51	Value Added Course Women Studies	2	2	2	25	75	100
	-	Library and Information Science	1	-	-	-	-	-
<b>Total</b>			<b>30</b>	<b>25</b>				<b>700</b>
<b>Semester VI</b>								
<b>Part III</b>	15UMC61	Major Courses Complex Analysis	6	5	3	25	75	100



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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

**DEPARTMENT OF MATHEMATICS**

**B.Sc. MATHEMATICS COMPUTER APPLICATIONS**

**NEW PROGRAMME INTRODUCED**

**JUNE 2015 AND LATER**

	15UMC6Z	Linear Algebra	5	5	3	25	75	100
	15UMC6P	Project	6	5	-	-	100	100
	15UMC6L	Web Designing lab	2	1	3	40	60	100
	15UMC6E1/ 15UMC6E2/ 15UMC6E3	Major Elective Course Operations Research / Applied Statistics/ Automata and formal languages	6	5	3	25	75	100
Part IV	14UJO69 / 15UJO69	Skill Based Courses (Open to all) Mathematical Statistics	2	2	3	25	75	100
	14UJ069L/ 15UJ069L	Mathematical Statistics Lab	2	2	3	40	60	100
	<b>Total</b>		<b>30</b>	<b>25</b>				<b>700</b>

*T. Palavesi*  
Principal

*G. K. K. K.*  
Head of the Department

PRINCIPAL  
Standard Fireworks  
Rajaratnam College  
for Women,  
SIVAKASI



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

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC,  
College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

DEPARTMENT OF MATHEMATICS

**B.Sc. MATHEMATICS COMPUTER APPLICATIONS**

**NEW PROGRAMME INTRODUCED**

JUNE 2015 AND LATER

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI  
DEPARTMENT OF MATHEMATICS  
COURSES OFFERED FOR OTHER MAJOR STUDENTS

Component	Course Code	Course Title	Teaching Hours Per Week	Credits	Duration of Exam. (Hrs.)	Marks Allotted		
						Internal	External	Total
Semester III								
Part IV	14UMC3N/ 15UMC3N	Non Major Elective Course Numerical Aptitude I	2	2	3	25	75	100
Semester V								
Part IV	14UMC4N / 15UMC4N	Non Major Elective Course Numerical Aptitude II	2	2	3	25	75	100
Semester VI								
Part IV	14UJO69 / 15UJO69	Skill Based Courses (Open to all) Mathematical Statistics	2	2	3	25	75	100
	14UJ069L/ 15UJ069L	Mathematical Statistics Lab	2	2	3	40	60	100

T. Palavesi  
Principal

PRINCIPAL  
The Standard Fireworks  
Rajaratnam College  
for Women,  
SIVAKASI

  
Head of the Department