



**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

JUNE 2020 AND LATER

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

**DEPARTMENT OF MATHEMATICS
B.SC MATHEMATICS – PROGRAMME CODE: BDMT
(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 | 8 |
| 4. | Part IV | 4 |
| Total | | 18 |

Total Number of Courses having changes :18

Total Number of Courses :44

Percentage of Revision :40.9


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
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**DEPARTMENT OF MATHEMATICS
PERCENTAGE OF SYLLABUS REVISION**

**B.Sc. MATHEMATICS
JUNE 2020 AND LATER**

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

DEPARTMENT OF MATHEMATICS

M.Sc Mathematics

Code: BDMT

June 2020 and later

| S.No | Semester | Course Code | Course Title |
|------|----------|-------------|----------------------------------|
| 1. | II | BDMT22 | Numerical Methods |
| 2. | III | BDMT31 | Mechanics |
| 3. | III | BDMT32 | Differential Equations |
| 4. | IV | BDMT4A | Programming in Python |
| 5. | IV | BDMT4AL | Programming in Python Lab |
| 6. | IV | BDMT4A1 | Allied Mathematics II |
| 7. | IV | BDMT4DSL | Mathematica & Maple Lab |
| 8. | V | BDMT5V | Internship/ On -The Job Training |
| 9. | VI | BDMT6L | R Language Lab |


Signature of the HOD

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


Signature of the Principal

PRINCIPAL
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**DEPARTMENT OF MATHEMATICS
PERCENTAGE OF SYLLABUS REVISION**

**B.Sc. MATHEMATICS
JUNE 2020 AND LATER**

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

| Courses | | | Semester | | | | | | Total No. of Credits |
|---|-----------|------------|-----------|-----------|-----------|-----------|-----------|------------|----------------------|
| | | | I | II | III | IV | V | VI | |
| Language Courses | | | | | | | | | |
| Part I – Tamil | | | 6(3) | 6(3) | 6(3) | 6(3) | - | - | 12 |
| Part II - English | | | 6(3) | 6(3) | 6(3) | 6(3) | - | - | 12 |
| Part III – Major, Major elective and Allied Courses | | | | | | | | | |
| 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) | |
| | | Course III | - | - | - | - | - | 6(5) | |
| | Practical | Lab I | - | - | - | - | 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 | | 4 (4) | 4(4) | 4(4) | 4(4) | - | - | |
| | | Practical | (*) | 2(2) | 2(1) | 2(1) | - | - | |
| Total No. of Credits | | | 12 | 14 | 17 | 12 | 21 | 21 | 97 |
| Part-IV Ability Enhancement Courses | | | | | | | | | |
| Value Added Courses | | | | | | | | | |
| 1) Environmental Studies | | | 2(2) | - | - | - | - | - | |
| 2) Value Education & Gender Studies | | | - | 2(2) | - | - | - | - | |
| Non Major Elective Courses | | | | | | | | | |
| i) NME I | | | - | - | - | 2(2) | - | - | |
| ii) NME II | | | - | - | - | - | 2(2) | - | |
| Skill Based Courses | | | | | | | | | |
| 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(*) | |
| Total | | | 2 | 4 | - | 4 | 4 | 4 | 18 |
| Part-V: Social Awareness Programme and Physical Education | | | | | | | | | |
| 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 |
| Total Credits | | | | | | | | 140 | |

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

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



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**DEPARTMENT OF MATHEMATICS
PERCENTAGE OF SYLLABUS REVISION
B.Sc. MATHEMATICS
JUNE 2020 AND LATER**

| THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI DEPARTMENT OF MATHEMATICS B.Sc. MATHEMATICS PROGRAMME (For those who have joined in 2020 and later) OUTCOME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM PROGRAMME CODE – BDMT PROGRAMME SCHEME | | | | | | | | | |
|---|------------------------------|---|-------------------------|-----------|--------------------------|----------------|----------|------------|--|
| Component | Course Code | Course Title | Teaching Hours Per Week | Credits | Duration of Exam. (Hrs.) | Marks Allotted | | | |
| | | | | | | Internal | External | Total | |
| Semester I | | | | | | | | | |
| Part I | BDGT11/ BDGH11/ BDGF11 | சங்க இலக்கியமும் உரைநடையும்/ Hindi Language Course – I/ French Language Course – I | 6 | 3 | 3 | 40 | 60 | 100 | |
| Part II | BDGET1 | English for Communication –I | 6 | 3 | 3 | 40 | 60 | 100 | |
| Part III | BDMT11 | Major Courses Calculus and Trigonometry | 5 | 4 | 3 | 40 | 60 | 100 | |
| | BDMT12 | AG3D and Vector Calculus | 5 | 4 | 3 | 40 | 60 | 100 | |
| | BDPH1A | Allied Courses Fundamental Physics | 4 | 4 | 3 | 40 | 60 | 100 | |
| | - | Fundamental Physics Lab | 2 | - | - | - | - | - | |
| Part IV | BDES11 | Value Added Course Environmental Studies | 2 | 2 | 2 | 40 | 60 | 100 | |
| Total | | | 30 | 20 | - | - | - | 600 | |
| Semester II | | | | | | | | | |
| Part I | BDGT21/ BDGH21/ BDGF21 | அறிஇலக்கியமும் தன்முன்னேற்றக் 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 | BDMT21 | Major Courses Theory of Equations | 4 | 4 | 3 | 40 | 60 | 100 | |
| | BDMT22 | Numerical Methods | 4 | 4 | 3 | 40 | 60 | 100 | |
| | BDPH2A1 | Allied Courses Digital Electronics | 4 | 4 | 3 | 40 | 60 | 100 | |
| | BDPH2AL | Fundamental Physics Lab | 2 | 2 | 3 | 50 | 50 | 100 | |
| Part IV | BDVG21 | Value Added Course Value Education & General 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 | - | - | - | - | |
| Total | | | 30 | 25 | - | - | - | 800 | |
| Semester III | | | | | | | | | |
| Part I | BDGT31/ BDGH31/ BDGF31 | சமயஇலக்கியமும் 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 | BDMT31 | Major Courses Mechanics | 6 | 6 | 3 | 40 | 60 | 100 | |
| | BDMT32 | Differential Equations | 6 | 6 | 3 | 40 | 60 | 100 | |
| | BDMT3A | Allied Courses Programming in C & C++ | 4 | 4 | 3 | 40 | 60 | 100 | |
| | BDMT3AL | Programming in C & C++ Lab | 2 | 1 | 3 | 50 | 50 | 100 | |
| Total | | | 30 | 23 | - | - | - | 600 | |



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**DEPARTMENT OF MATHEMATICS
PERCENTAGE OF SYLLABUS REVISION**

B.Sc. MATHEMATICS

JUNE 2020 AND LATER

| Semester IV | | | | | | | | |
|--|------------------------------|---|-----------|-----------|----------|----------|----------|------------|
| Part I | BDGT41/ BDGH41/ BDGF41 | கவிதை இலக்கியமும் சிறுகதையும்/ Hindi Language Course -IV/ French Language Course – IV | 6 | 3 | 3 | 40 | 60 | 100 |
| Part II | BDGE41 | English for Enrichment-II | 6 | 3 | 3 | 40 | 60 | 100 |
| Part III | Major Courses | | | | | | | |
| | BDMT41 | Graph Theory | 4 | 4 | 3 | 40 | 60 | 100 |
| | BDMT42 | Sequences and Series | 4 | 3 | 3 | 40 | 60 | 100 |
| | BDMT4A BDMT4AL | Allied Courses Programming in Python Programming in PythonLab | 4 2 | 4 1 | 3 3 | 40 50 | 60 50 | 100 100 |
| Part IV | BD4N | Non Major Elective Course | 2 | 2 | 2 | 40 | 60 | 100 |
| | Skill Based Course | | | | | | | |
| | BDMT4DSL | Discipline Specific Course Mathematica & Maple Lab | 2 | 2 | 3 | 50 | 50 | 100 |
| Total | | | 30 | 22 | - | - | - | 800 |
| Semester V | | | | | | | | |
| Part III | Major Courses | | | | | | | |
| | BDMT51 | Real Analysis | 6 | 5 | 3 | 40 | 60 | 100 |
| | BDMT52 | Modern Algebra | 5 | 4 | 3 | 40 | 60 | 100 |
| | BDMT5L | MATLAB | 2 | 2 | 3 | 50 | 50 | 100 |
| | Major Elective Courses | | | | | | | |
| | BDMT5E1/ BDMT5E2 | Linear Programming/ Fourier Analysis | 6 | 5 | 3 | 40 | 60 | 100 |
| | BDMT5E3/ BDMT5E4 | Discrete Mathematics/ Modern Applied Algebra | 6 | 4 | 3 | 40 | 60 | 100 |
| Part IV | BDMT5V | Internship/ On -The Job Training | - | 1 | - | - | 100 | 100 |
| | BDCG51 | Skill Based Course Career Guidance | 2 | 2 | 2 | 40 | 60 | 100 |
| | BD5N | Non Major Elective Course | 2 | 2 | 2 | 40 | 60 | 100 |
| | - | Library and Information Science | 1 | - | - | - | - | - |
| Total | | | 30 | 25 | - | - | - | 800 |
| Study tour/Field visit is mandatory for the course BDMT5E1 –Linear Programming | | | | | | | | |
| Semester VI | | | | | | | | |
| Part III | Major Courses | | | | | | | |
| | BDMT61 | Complex Analysis | 6 | 5 | 3 | 40 | 60 | 100 |
| | BDMT62 | Linear Algebra | 5 | 4 | 3 | 40 | 60 | 100 |
| | BDMT63 | Statistics | 6 | 5 | 3 | 40 | 60 | 100 |
| | BDMT6L | RLanguage Lab | 2 | 2 | 3 | 50 | 50 | 100 |
| Part IV | Major Elective Courses | | | | | | | |
| | BDMT6E1/ BDMT6E2 | 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 | - | - | - | - | - |
| Total | | | 30 | 25 | - | - | - | 700 |

T. Palavesi
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B.Sc. MATHEMATICS

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 III | | | | | | | | |
| Part III | BDMT3A1 | Allied Courses for Chemistry and Physics Major Students Allied Mathematics I | 6 | 5 | 3 | 40 | 60 | 100 |
| Semester IV | | | | | | | | |
| Part III | BDMT4A1 | Allied Courses for Chemistry and Physics Major Students Allied Mathematics II | 6 | 5 | 3 | 40 | 60 | 100 |
| Part IV | BDMT4N | Non Major Elective Course Statistical Methods | 2 | 2 | 2 | 40 | 60 | 100 |
| Semester V | | | | | | | | |
| Part IV | BDMT5N | Non Major Elective Course Numerical Methods | 2 | 2 | 2 | 40 | 60 | 100 |
| Semester VI | | | | | | | | |
| Part IV | BDJO66 | Skill Based Courses (open to all) Self Employment Courses Career Mathematics | 2 | 2 | 2 | 40 | 60 | 100 |
| | BDJO66L | Career Mathematics Lab | 2 | 2 | 3 | 50 | 50 | 100 |

Extra Credit Course (Open to All)

| Semester | Course Code | Course Title | Total Contact Hours | Credits | Duration of Exam (Hours) | Marks Allotted | | |
|----------|-------------|---------------------------------|---------------------|---------|--------------------------|----------------|----------|-------|
| | | | | | | Internal | External | Total |
| | BDMTEC1 | Mathematics for career building | 30 | 2 | 3 | 40 | 60 | 100 |

T. Palanivel
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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**



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PERCENTAGE OF SYLLABUS REVISION**

B.Sc. MATHEMATICS

JUNE 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 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 |
| Total | | 16 |

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,
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**DEPARTMENT OF MATHEMATICS
PERCENTAGE OF SYLLABUS REVISION**

**B.Sc. MATHEMATICS
JUNE 2017 AND LATER**

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),

SIVAKASI

DEPARTMENT OF MATHEMATICS

B.Sc Mathematics

Code: GLMT

June 2017 and later

| S.No | Semester | Course Code | Course Title |
|------|----------|-------------|------------------|
| 1. | IV | GLMT4DS | Combinatorics |
| 2. | V | GLMT5L | Maple Lab I |
| 3. | V | GLMT5E2 | Fourier Analysis |
| 4. | VI | GLMT62 | Number theory |
| 5 | VI | GLMT6L | Matlab |

D. Kundu
Signature of the HOD

Head of the Dept. of Mathematics,
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T. Palavesi
Signature of the Principal
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**DEPARTMENT OF MATHEMATICS
PERCENTAGE OF SYLLABUS REVISION**

B.Sc. MATHEMATICS

JUNE 2017 AND LATER

| The Standard Fireworks Rajaratnam College for Women, Sivakasi B.Sc. Mathematics – 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 |
| Part III – Major and Allied Courses : | | | | | | | | | |
| 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) | 6(5) | |
| | Practical | Lab I | | | | | 2(2) | 2(2) | |
| Allied | | Theory | 4 (4) | 4(4) | 4(4) | 4(4) | - | - | |
| | | Practical | 2* | 2(2) | 2(1) | 2(1) | - | - | |
| Total No. of Credits | | | 16(12) | 14(14) | 16(15) | 14(12) | 25(21) | 25(21) | 95 |
| Part IV Value Added /Non Major/ Skilled based Courses | | | | | | | | | |
| Value Added Courses | | | | | | | | | |
| Peace Education | | | 2(2) | - | - | - | - | - | |
| Environmental Studies | | | - | 2(2) | - | - | - | - | |
| Non Major Courses | | | | | | | | | |
| i) NME I | | | - | - | 2(2) | - | - | - | |
| ii) NME II | | | - | - | - | 2(2) | - | - | |
| Skilled based Courses | | | | | | | | | |
| 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(*) | |
| Total No. of Credits | | | 2 | 4 | 2 | 4 | 4 | 4 | 20 |
| Part V: Extension Activities–Physical Education & Social Awareness Programme | | | | | | | | | |
| NSS/NCC/Physical Education/ Extension Activities/Youth Red Cross/Social Service League/Red Ribbon Club/Citizen Consumer Club/Environmental Club | | | (*) | (1) | - | - | - | - | 1 |
| Total | | | | | | | | | 140 |

T. Palavesoni

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**DEPARTMENT OF MATHEMATICS
PERCENTAGE OF SYLLABUS REVISION
B.Sc. MATHEMATICS
JUNE 2017 AND LATER**

| THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI DEPARTMENT OF MATHEMATICS B.Sc. MATHEMATICS PROGRAMME (For those who have joined in 2017 and later) OUTCOME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM PROGRAMME CODE – GLMT PROGRAMME SCHEME | | | | | | | | | |
|---|------------------------------|--|-------------------------|-----------|--------------------------|----------------|----------|------------|--|
| Component | Course Code | Course Title | Teaching Hours Per Week | Credits | Duration of Exam. (Hrs.) | Marks Allotted | | | |
| | | | | | | Internal | External | Total | |
| Semester I | | | | | | | | | |
| 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 | GLMT11 | Major Courses Calculus and Trigonometry | 5 | 4 | 3 | 25 | 75 | 100 | |
| | GLMT12 | AG3D and Vector Calculus | 5 | 4 | 3 | 25 | 75 | 100 | |
| | GLPH1A | Allied Courses Fundamental Physics Allied Lab | 4 2 | 4 | 3 | 25 | 75 | 100 | |
| Part IV | GLPE11 | Value Added Course Peace Education | 2 | 2 | 2 | 25 | 75 | 100 | |
| Total | | | 30 | 20 | | | | 600 | |
| Semester II | | | | | | | | | |
| Part I | GLGT21/ GLGH21/ GLGF21 | காடுவிய 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 | GLMT21 | Major Courses Theory of equations | 4 | 4 | 3 | 25 | 75 | 100 | |
| | GLMT22 | Numerical Methods | 4 | 4 | 3 | 25 | 75 | 100 | |
| | GLPH2A1 GLPH2AL | Allied Courses Digital Electronics Allied Lab | 4 2 | 4 | 3 | 25 40 | 75 60 | 100 100 | |
| Part IV | GLES21 | Value Added Course Environmental studies | 2 | 2 | 2 | 25 | 75 | 100 | |
| | GLCL23 | Skill based Course Introduction to Computers & MS office | 2 | 2 | 2 | 25 | 75 | 100 | |
| Part V | - | Extension Activities – Physical Education and Social Awareness Programme | - | 1 | - | - | - | - | |
| Total | | | 30 | 25 | | | | 800 | |
| Semester III | | | | | | | | | |
| 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 | GLMT31 | Major Courses Modern Algebra | 5 | 5 | 3 | 25 | 75 | 100 | |
| | GLMT32 | Differential equations | 5 | 5 | 3 | 25 | 75 | 100 | |
| | GLMT3A | Allied Courses Programming in C | 4 | 4 | 3 | 25 | 75 | 100 | |
| | GLMT3AL | Programming in C Lab | 2 | 1 | 3 | 40 | 60 | 100 | |
| Part IV | GL3N | Non Major Elective Course | 2 | 2 | 2 | 25 | 75 | 100 | |
| Total | | | 30 | 23 | | | | 700 | |



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
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**DEPARTMENT OF MATHEMATICS
PERCENTAGE OF SYLLABUS REVISION
B.Sc. MATHEMATICS
JUNE 2017 AND LATER**

| Semester IV | | | | | | | | |
|-----------------|---------------------------------|---|-----------|-----------|----------|----------|----------|------------|
| Part I | GLGT41/ GLGH41/ GLGF41 | கனிதை இலக்கியமும் சிறுகதைகளும்/ 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 | GLMT41 | Major Courses Graph Theory | 4 | 4 | 3 | 25 | 75 | 100 |
| | GLMT42 | Sequences and Series | 4 | 3 | 3 | 25 | 75 | 100 |
| | GLMT4A | Allied Courses Programming in C++ | 4 | 4 | 3 | 25 | 75 | 100 |
| | GLMT4AL | Programming in C++ Lab | 2 | 1 | 3 | 40 | 60 | 100 |
| Part IV | GL4N | Non Major Elective Course | 2 | 2 | 3 | 25 | 75 | 100 |
| | GLMT4DS | Skill Based Course Discipline Specific Course Combinatorics | 2 | 2 | 2 | 25 | 75 | 100 |
| Total | | | 30 | 22 | - | - | - | 800 |
| Semester V | | | | | | | | |
| Part III | GLMT51 | Major Courses Real Analysis | 6 | 5 | 3 | 25 | 75 | 100 |
| | GLMT52 | Linear Algebra | 5 | 4 | 3 | 25 | 75 | 100 |
| | GLMT5L | Maple Lab I | 2 | 2 | 3 | 40 | 60 | 100 |
| | GLMT5E1 / GLMT5E2/ | Major Elective Courses Linear Programming / Laplace and Fourier transforms | 6 | 5 | 3 | 25 | 75 | 100 |
| | GLMT5E3/ GLMT5E4 | Discrete Mathematics / Modern Applied Algebra | 6 | 5 | 3 | 25 | 75 | 100 |
| Part IV | GLGV51 | Skill Based Course Career Guidance and Subject Viva | 2 | 2 | 2 | 25 | 75 | 100 |
| | GLWSS1 | Women Studies | 2 | 2 | 2 | 25 | 75 | 100 |
| | - | Library and Information Science | 1 | - | - | - | - | - |
| Total | | | 30 | 25 | - | - | - | 700 |
| Semester VI | | | | | | | | |
| Part III | GLMT61 | Major Courses Complex Analysis | 6 | 5 | 3 | 25 | 75 | 100 |
| | GLMT62 | Number theory | 5 | 4 | 3 | 25 | 75 | 100 |
| | GLMT63 | Statistics | 6 | 5 | 3 | 25 | 75 | 100 |
| | GLMT6L | Matlab | 2 | 2 | 3 | 40 | 60 | 100 |
| | GLMT6E1/ GLMT6E2/ GLMT6E3 | Major Elective Course Operations Research / Applied Statistics/ Automata and formal languages | 6 | 5 | 3 | 25 | 75 | 100 |
| Part IV | - | Skill Based Courses Library and Information Science | 1 | - | - | - | - | - |
| | GLSE/GLJO | Skill Based Courses (Open to all) Self Employment/ Job Oriented courses – Theory | 2 | 2 | 3 | 25 | 75 | 100 |
| | GLSEL/ GLJO L | Self Employment/ Job Oriented courses – Practical | 2 | 2 | 3 | 40 | 60 | 100 |
| Total | | | 30 | 25 | - | - | - | 700 |

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

S. Subudra
Head of the Department



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**DEPARTMENT OF MATHEMATICS
PERCENTAGE OF SYLLABUS REVISION**

B.Sc. MATHEMATICS

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 |
| Semester III | | | | | | | | |
| Part III | GLMT3A1 | Allied Courses for Chemistry and physics Major Students Allied Mathematics I | 6 | 5 | 3 | 25 | 75 | 100 |
| Part IV | GLMT3N | Non Major Elective Course Introduction to Statistics | 2 | 2 | 3 | 25 | 75 | 100 |
| Semester IV | | | | | | | | |
| Part III | GLMT4A1 | Allied Courses for Chemistry and physics Major Students Allied Mathematics II | 6 | 5 | 3 | 25 | 75 | 100 |
| Part IV | GLMT4N | Non Major Elective Course Numerical Methods | 2 | 2 | 3 | 25 | 75 | 100 |
| Semester VI | | | | | | | | |
| Part IV | GLJ066 | Skill Based Courses (Open to all) Career Mathematics | 2 | 2 | 2 | 25 | 75 | 100 |
| | GLJ066L | Career Mathematics - Lab | 2 | 2 | 3 | 40 | 60 | 100 |

Extra Credit Course (Open to All)

| Semester | Course Code | Course Title | Total Contact Hours | Credits | Duration of Exam (Hours) | Marks Allotted | | |
|----------|-------------|---------------------------------|---------------------|---------|--------------------------|----------------|----------|-------|
| | | | | | | Internal | External | Total |
| | AMTEC1 | Mathematics for career Building | 2 | 2 | 3 | 25 | 75 | 100 |

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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
2014 AND LATER**



**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),
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**DEPARTMENT OF MATHEMATICS
PERCENTAGE OF SYLLABUS REVISION**

B.Sc. MATHEMATICS

JUNE 2014 AND LATER

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

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

| S.No. | Components | Number of courses having changes |
|-------|------------|----------------------------------|
| 1. | Part I | 4 |
| 2. | Part II | 4 |
| 3. | Part III | 1 |
| 4. | Part IV | 2 |
| Total | | 11 |

Total Number of Courses having changes :11

Total Number of Courses :40

Percentage of Revision :27.5

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
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**DEPARTMENT OF MATHEMATICS
PERCENTAGE OF SYLLABUS REVISION
B.Sc. MATHEMATICS
JUNE 2014 AND LATER**

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),

SIVAKASI

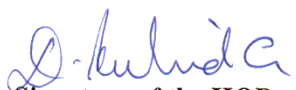
DEPARTMENT OF MATHEMATICS

B.Sc Mathematics


Code: 14UMT

June 2014 and later

| S.No | Semester | Course Code | Course Title |
|------|----------|-------------|------------------------|
| 1. | IV | 14UMT52L | Linear Programming Lab |


Signature of the HOD

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


Signature of the Principal

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**DEPARTMENT OF MATHEMATICS
PERCENTAGE OF SYLLABUS REVISION**

B.Sc. MATHEMATICS

JUNE 2014 AND LATER

The Standard Fireworks Rajaratnam College for Women, sivakasi
B.Sc. Mathematics - Allotment of hours and credits
(For those who joined in June 2014 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 | | |
| Part III – Major and Allied Courses : | | | | | | | | | | |
| Major | Theory | Course I | 5(5) | 4 (3) | 5(5) | 5(5) | 6(5) | 6(5) | | |
| | | Course II | 5(5) | 4 (3) | 5(5) | 3(2) | 6(5) | 6(5) | | |
| | | Course III | - | - | - | - | 6(5) | 6(5) | | |
| | | Course IV | - | - | - | - | 5(5) | 5(5) | | |
| | Practical | Lab I | | | | 2(1) | 2(1) | | | |
| Allied | | Theory | 4 (4) | 4(4) | 4(4) | 4(4) | - | - | | |
| | | Practical | 2* | 2(2) | 2(1) | 2(1) | - | - | | |
| Total No. of Credits | | | 16(14) | 14(12) | 16(15) | 14(12) | 25(21) | 25(21) | 95 | |
| Part IV Non Major/Value Added Courses | | | | | | | | | | |
| 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(*) | - | | |
| Total No. of Credits | | | 2 | 4 | 2 | 4 | 4 | 4 | | 20 |
| Part V: Extension Activities–Physical Education & Social Awareness Programme | | | | | | | | | | |
| NSS/NCC/Physical Education/Extension Activities/Youth Red Cross/Social Service League | | (*) | (1) | - | - | - | - | - | 1 | |
| Total | | | | | | | | | 140 | |

T. Palavesi
Principal
PRINCIPAL
The Standard Fireworks
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**DEPARTMENT OF MATHEMATICS
PERCENTAGE OF SYLLABUS REVISION**

**B.Sc. MATHEMATICS
JUNE 2014 AND LATER**

**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI
DEPARTMENT OF MATHEMATICS
B.Sc. MATHEMATICS
(For those who have joined in 2014 and later)
CHOICE BASED CREDIT SYSTEM
PROGRAMME CODE – 14UMT
PROGRAMME SCHEME**

| Component | Course Code | Course Title | Teaching Hours Per Week | Credits | Duration of Exam. (Hrs.) | Marks Allotted | | |
|---------------------|---------------------------------|--|-------------------------|-----------|--------------------------|----------------|----------|------------|
| | | | | | | Internal | External | Total |
| Semester I | | | | | | | | |
| 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 | 14UMT11 | Major Courses Calculus | 5 | 5 | 3 | 25 | 75 | 100 |
| | 14UMT12 | Analytical Geometry of 3D | 5 | 5 | 3 | 25 | 75 | 100 |
| Part IV | 14UPE11 | Peace Education | 2 | 2 | 2 | 25 | 75 | 100 |
| Total | | | 24 | 18 | | | | 500 |
| Semester II | | | | | | | | |
| Part I | 14UGT21/ 14UGH21/ 14UGF21 | பக்திஇலக்கியம்/ 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 | 14UMT21 | Major Courses Theory of equations | 4 | 3 | 3 | 25 | 75 | 100 |
| | 14UMT22 | Sequences and Series | 4 | 3 | 3 | 25 | 75 | 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 |
| Total | | | 24 | 17 | | | | 700 |
| Semester III | | | | | | | | |
| Part I | 14UGT31/ 14UGH31/ 14UGF31 | காப்பியஇலக்கியம் / 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 |
| Part III | 14UMT31 | Major Courses Graph Theory | 5 | 5 | 3 | 25 | 75 | 100 |
| | 14UMT32 | Differential equations | 5 | 5 | 3 | 25 | 75 | 100 |



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**DEPARTMENT OF MATHEMATICS
PERCENTAGE OF SYLLABUS REVISION**

B.Sc. MATHEMATICS

JUNE 2014 AND LATER

| | | | | | | | | |
|--------------------|------------------------------------|---|-----------|-----------|---|----|----|------------|
| | 14UMT3A | Allied Course Programming in C | 4 | 4 | 3 | 25 | 75 | 100 |
| | 14UMT3AL | Programming in C Lab | 2 | 1 | 3 | 40 | 60 | 100 |
| Part IV | 14U3N | Non Major Elective I | 2 | 2 | 3 | 25 | 75 | 100 |
| Total | | | 30 | 23 | | | | 700 |
| Semester IV | | | | | | | | |
| Part I | 14UGT41/ 14UGH41/ 14UGF41 | சங்கிலக்கியம் / Hindi Language Course -IV/ French Language Course - IV | 6 | 3 | 3 | 25 | 75 | 100 |
| Part II | 14UGE41 | Communicative English-IV | 6 | 3 | 3 | 25 | 75 | 100 |
| Part III | 14UMT41 | Major Courses Modern Algebra | 5 | 5 | 3 | 25 | 75 | 100 |
| | 14UMT42 | Vector Calculus and Trigonometry | 3 | 2 | 3 | 25 | 75 | 100 |
| | 14UMT4A | Programming in C++ | 4 | 4 | 3 | 25 | 75 | 100 |
| | 14UMT4AL | Programming in C++ Lab | 2 | 1 | 3 | 40 | 60 | 100 |
| Part IV | 14U4N | Non Major Elective II | 2 | 2 | 3 | 25 | 75 | 100 |
| | 14USK41 | Value Added Course Soft Skill Enhancement | 2 | 2 | - | 40 | 60 | 100 |
| Total | | | 30 | 22 | | | | 800 |
| Semester V | | | | | | | | |
| Part III | 14UMT51 | Major Courses Statistics | 6 | 5 | 3 | 25 | 75 | 100 |
| | 14UMT52 | Linear Programming | 5 | 5 | 3 | 25 | 75 | 100 |
| | 14UMT52L | Linear Programming Lab | 2 | 1 | 3 | 40 | 60 | 100 |
| | 14UMT5E1 / 14UMT5E2/ | Major Elective Courses Real Analysis / Number theory and Cryptography/ | 6 | 5 | 3 | 25 | 75 | 100 |
| | 14UMT5E3/ 14UMT5E4 | Discrete Mathematics / Modern Applied Algebra | 6 | 5 | 3 | 25 | 75 | 100 |
| Part IV | 14UGV51/ 15UGV51 | Value Added Course Career Guidance and Subject Viva | 2 | 2 | 2 | 25 | 75 | 100 |
| | 14UWS51 | Women Studies | 2 | 2 | 2 | 25 | 75 | 100 |
| Total | | | 29 | 25 | | | | 700 |
| Semester VI | | | | | | | | |
| Part III | 14UMT61 | Major Courses Linear Algebra | 6 | 5 | 3 | 25 | 75 | 100 |
| | 14UMT62 | Operations Research | 6 | 5 | 3 | 25 | 75 | 100 |
| | 14UMT63 | Numerical Methods | 5 | 5 | 3 | 25 | 75 | 100 |
| | 14UMT63L | Numerical Methods Lab | 2 | 1 | 3 | 40 | 60 | 100 |
| | 14UMT6E1/ 14UMT6E2/ 14UMT6E3 | Major Elective Course Complex Analysis / Applied Statistics/ Automata and formal languages | 6 | 5 | 3 | 25 | 75 | 100 |



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**DEPARTMENT OF MATHEMATICS
PERCENTAGE OF SYLLABUS REVISION**

**B.Sc. MATHEMATICS
JUNE 2014 AND LATER**

| | | | | | | | | |
|---------|----------|--|----|----|---|----|----|-----|
| Part IV | 14UJ066 | Skill Based Courses (Open to all) Self Employment/ Job Oriented courses – Theory | 2 | 2 | 3 | 25 | 75 | 100 |
| | 14UJ066L | Self Employment/ Job Oriented courses – Practical | 2 | 2 | 3 | 40 | 60 | 100 |
| Total | | | 29 | 25 | | | | 700 |

T. Palavesi
Principal
PRINCIPAL
of Standard Fireworks
Rajaratnam College
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D. Kulidra
Head of the Department



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PERCENTAGE OF SYLLABUS REVISION**

**B.Sc. MATHEMATICS
JUNE 2014 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 III | 14UMT3A1 | Allied Courses for Chemistry AND physics Major Students Allied Mathematics I | 6 | 5 | 3 | 25 | 75 | 100 |
| Part IV | 14UMT3N | Non Major Elective Course Statistical Methods | 2 | 2 | 3 | 25 | 75 | 100 |
| Semester IV | | | | | | | | |
| Part III | 14UMT4A1 | Allied Courses for Chemistry AND physics Major Students Allied Mathematics II | 6 | 5 | 3 | 25 | 75 | 100 |
| Part IV | 14UMT4N | Non Major Elective Course Mathematical Methods | 2 | 2 | 3 | 25 | 75 | 100 |
| Semester VI | | | | | | | | |
| Part IV | 14UJ066 | Skill Based Courses (Open to all) Career Mathematics | 2 | 2 | 3 | 25 | 75 | 100 |
| | 14UJ066L | Career Mathematics Lab | 2 | 2 | 3 | 40 | 60 | 100 |
| <p>Extra Credit Course (Open to All) Don't use Add on Courses Paste your Dept. details</p> | | | | | | | | |
| Semester | Course Code | Course Title | Total Contact Hours | Credits | Duration of Exam (Hours) | Marks Allotted | | |
| | 14UMTEC1 | Mathematics for career Building | 2 | 2 | 3 | 25 | 75 | 100 |

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