



**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 PHYSICS**  
**PERCENTAGE OF SYLLABUS REVISION**  
**M.SC PHYSICS**  
**2020 AND LATER**

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),  
SIVAKASI.  
DEPARTMENT OF PHYSICS  
M. SC PHYSICS – PROGRAMME CODE: MDPH  
(For those who have joined in June 2020 and later)

|  |         |
|--|---------|
| Total Number of Courses having changes | :14     |
| Total Number of Courses                | :24     |
| Percentage of Revision                 | :58.33% |

  
Signature of the HOD with Seal

**Dr.(Mrs) S.SIVA DEVI**  
HOD of Physics  
The S.F.R.College for Women  
SIVAKASI - 626 123.

  
**Dr. T. Palaneeswari**  
PRINCIPAL  
The Standard Fireworks  
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**DEPARTMENT OF PHYSICS**

**PERCENTAGE OF SYLLABUS REVISION**

**M.SC PHYSICS**

**2020 AND LATER**


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


**DEPARTMENT OF PHYSICS**

**M. SC PHYSICS – PROGRAMME CODE: MDPH**

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

| S. No | Course Code | Course Title                        |
|-------|-------------|-------------------------------------|
| 1.    | MDPH12      | Classical and Statistical Mechanics |
| 2.    | MDPH1L      | Advanced Physics Lab – I            |
| 3.    | MDPH1E1     | Solar Energy and its Applications   |
| 4.    | MDPH21      | Quantum Mechanics – I               |
| 5.    | MDPH2L      | Advanced Physics Lab – II           |
| 6.    | MDPH31      | Solid State Physics – I             |
| 7.    | MDPH32      | Quantum Mechanics – II              |
| 8.    | MDPH33      | Computational Physics               |
| 9.    | MDPH3L      | Advanced Physics Lab – III          |
| 10.   | MDPH3E1     | Materials Science and IPR           |
| 11.   | MDPH41      | Solid State Physics – II            |
| 12.   | MDPH42      | Nuclear and Particle Physics        |
| 13.   | MDPH43      | Molecular Spectroscopy              |
| 14.   | MDPH4E1     | Nano Physics                        |

  
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**DEPARTMENT OF PHYSICS**  
**PERCENTAGE OF SYLLABUS REVISION**  
**M.SC PHYSICS**  
**2020 AND LATER**

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI  
DEPARTMENT OF PHYSICS  
M.Sc. Physics  
(For those who have joined in 2020 and later)  
OUTCOME BASED EDUCATION WITH CHOICE BASED CREDIT SYSTEM  
PROGRAMME CODE – MDPH  
PROGRAMME SCHEME

| Semester   | Course Code         | Course Title   | Teaching Hours Per Week | Credits   | Duration of Exam (Hours) | Marks Allotted |            |            |
|--|---------------------|--|-------------------------|-----------|--------------------------|----------------|------------|------------|
|  |                     |  |                         |           |                          | Internal       | External   | Total      |
| I  | MDPH11              | <b>Core Courses</b><br>Mathematical Physics – I  | 6                       | 5         | 3                        | 40             | 60         | 100        |
|  | MDPH12              | Classical and Statistical Mechanics  | 6                       | 4         | 3                        | 40             | 60         | 100        |
|  | MDPH13              | Linear Integrated Circuits   | 6                       | 4         | 3                        | 40             | 60         | 100        |
|  | MDPH1L              | Advanced Physics Lab – I   | 6                       | 4         | 5                        | 50             | 50         | 100        |
|  | MDPH1E1/<br>MDPH1E2 | <b>Elective Course I</b><br>Solar Energy and its applications/<br>Digital Logic Design | 6                       | 5         | 3                        | 40             | 60         | 100        |
|  | <b>Total</b>        |  |                         | <b>30</b> | <b>22</b>                |                |            | <b>500</b> |
| Field visit mandatory for the course MDPH13 - Linear Integrated Circuits |                     |  |                         |           |                          |                |            |            |
| II   | MDPH21              | <b>Core Courses</b><br>Mathematical Physics – II                                       | 6                       | 5         | 3                        | 40             | 60         | 100        |
|  | MDPH22              | Quantum Mechanics – I  | 6                       | 4         | 3                        | 40             | 60         | 100        |
|  | MDPH23              | Electromagnetic Theory   | 6                       | 4         | 3                        | 40             | 60         | 100        |
|  | MDPH2L              | Advanced Physics Lab – II  | 6                       | 4         | 5                        | 50             | 50         | 100        |
|  | MD2E                | <b>Elective Course II (Offered by other Departments)</b>                               | 6                       | 5         | 3                        | 40             | 60         | 100        |
| <b>Total</b>   |                     |  | <b>30</b>               | <b>22</b> |                          |                | <b>500</b> |            |
| III  | MDPH31              | <b>Core Courses</b><br>Solid State Physics – I   | 6                       | 5         | 3                        | 40             | 60         | 100        |
|  | MDPH32              | Quantum Mechanics – II   | 6                       | 4         | 3                        | 40             | 60         | 100        |
|  | MDPH33              | Computational Physics and Microprocessor   | 6                       | 4         | 3                        | 40             | 60         | 100        |
|  | MDPH3L              | Advanced Physics Lab – III   | 6                       | 4         | 5                        | 50             | 50         | 100        |
|  | MDPH3E1/<br>MDPH3E2 | <b>Elective Course III</b><br>Materials Science and IPR/<br>Recent Trends in Physics   | 6                       | 5         | 3                        | 40             | 60         | 100        |
|  | <b>Total</b>        |  |                         | <b>30</b> | <b>22</b>                |                |            | <b>500</b> |
| Field visit mandatory for the course MDPH3E1- Materials Science and IPR  |                     |  |                         |           |                          |                |            |            |
| IV   | MDPH41              | <b>Core Courses</b><br>Solid State Physics – II  | 6                       | 5         | 3                        | 40             | 60         | 100        |
|  | MDPH42              | Nuclear and Particle Physics   | 6                       | 5         | 3                        | 40             | 60         | 100        |
|  | MDPH43              | Molecular Spectroscopy   | 6                       | 4         | 3                        | 40             | 60         | 100        |
|  | MDPH4E1/<br>MDPH4E2 | <b>Elective Course IV</b><br>Nano Physics/<br>Medical Physics                          | 6                       | 5         | 3                        | 40             | 60         | 100        |
|  |                     |  |                         |           |                          |                |            |            |

*S. Siva Devi*  
Dr.(Mrs) S.SIVA DEVI  
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*T. Palaneeswari*  
Dr. T. Palaneeswari  
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**DEPARTMENT OF PHYSICS  
PERCENTAGE OF SYLLABUS REVISION**


**M.SC PHYSICS**


**2020 AND LATER**

|              |                       |           |           |   |   |     |            |
|--------------|-----------------------|-----------|-----------|---|---|-----|------------|
| MDPH4P       | Project and viva voce | 6         | 5         | - | - | 100 | 100        |
| <b>Total</b> |                       | <b>30</b> | <b>24</b> |   |   |     | <b>500</b> |

**ELECTIVE COURSE OFFERED FOR OTHER MAJOR STUDENTS**

| Semester  | Course Code         | Course Title                     | Teaching Hours Per Week | Credits | Duration of Exam (Hours) | Marks Allotted |          |       |
|-----------|---------------------|----------------------------------|-------------------------|---------|--------------------------|----------------|----------|-------|
|           |                     |                                  |                         |         |                          | Internal       | External | Total |
| <b>II</b> | MDPH2E1/<br>MDPH2E2 | Applied Physics/ Microcontroller | 6                       | 5       | 3                        | 40             | 60       | 100   |

  
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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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**DEPARTMENT OF PHYSICS  
PERCENTAGE OF SYLLABUS REVISION**

**M.SC PHYSICS  
2017 AND LATER**

**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),  
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**DEPARTMENT OF PHYSICS  
M. SC PHYSICS – PROGRAMME CODE: HLPH  
(For those who have joined in June 2017 and later)**


Total Number of Courses having changes :4

Total Number of Courses :24

Percentage of Revision :16.67%

  
Signature of the HOD with Seal

**Dr. (Mrs) S. SIVA DEVI  
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**DEPARTMENT OF PHYSICS  
PERCENTAGE OF SYLLABUS REVISION**


**M.SC PHYSICS**


**2017 AND LATER**

**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),  
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**DEPARTMENT OF PHYSICS  
M. SC PHYSICS – PROGRAMME CODE: HLPH  
(For those who have joined in June 2017 and later)**

| Course Code | Course Title                        |
|-------------|-------------------------------------|
|             | <b>Core Courses</b>                 |
| HLPH11      | Mathematical Physics – I            |
| HLPH12      | Classical and Statistical Mechanics |
| HLPH22      | Mathematical Physics - II           |
| HLPH33      | Computer Oriented Numerical Methods |

  
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**DEPARTMENT OF PHYSICS  
PERCENTAGE OF SYLLABUS REVISION**

**M.SC PHYSICS  
2017 AND LATER**

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI  
DEPARTMENT OF PHYSICS  
M.Sc. Physics  
(For those who have joined in 2017 and later)  
CHOICE BASED CREDIT SYSTEM  
PROGRAMME CODE – HLPH  
PROGRAMME SCHEME

| Semester     | Course Code         | Course Title  | Teaching Hours Per Week | Credits   | Duration of Exam (Hours) | Marks Allotted |          |            |
|--------------|---------------------|---|-------------------------|-----------|--------------------------|----------------|----------|------------|
|              |                     |   |                         |           |                          | Internal       | External | Total      |
| I            | HLPH11              | Core Courses<br>Mathematical Physics – I  | 6                       | 5         | 3                        | 25             | 75       | 100        |
|              | HLPH12              | Classical and Statistical Mechanics   | 6                       | 4         | 3                        | 25             | 75       | 100        |
|              | HLPH13              | Linear Integrated Circuits  | 6                       | 4         | 3                        | 25             | 75       | 100        |
|              | HLPH1L              | Lab – I   | 6                       | 4         | 5                        | 40             | 60       | 100        |
|              | HLPH1E1/<br>HLPH1E2 | Elective Course I<br>Microprocessors /<br>Digital Logic Design                                      | 6                       | 5         | 3                        | 25             | 75       | 100        |
| <b>Total</b> |                     |   | <b>30</b>               | <b>22</b> |                          |                |          | <b>500</b> |
| II           | HLPH21              | Core Courses<br>Quantum Mechanics – I   | 6                       | 5         | 3                        | 25             | 75       | 100        |
|              | HLPH22              | Mathematical Physics - II   | 6                       | 4         | 3                        | 25             | 75       | 100        |
|              | HLPH23              | Electromagnetic Theory  | 6                       | 4         | 3                        | 25             | 75       | 100        |
|              | HLPH2L              | Lab – II  | 6                       | 4         | 5                        | 40             | 60       | 100        |
|              | HLPH2E1/<br>HLPH2E2 | Elective Course II<br>Applied Physics/ Microcontroller  | 6                       | 5         | 3                        | 25             | 75       | 100        |
| <b>Total</b> |                     |   | <b>30</b>               | <b>22</b> |                          |                |          | <b>500</b> |
| III          | HLPH31              | Core Courses<br>Solid State Physics –I  | 6                       | 5         | 3                        | 25             | 75       | 100        |
|              | HLPH32              | Quantum Mechanics – II  | 6                       | 4         | 3                        | 25             | 75       | 100        |
|              | HLPH33              | Computer Oriented Numerical<br>Methods  | 6                       | 4         | 3                        | 25             | 75       | 100        |
|              | HLPH3L              | Lab – III   | 6                       | 4         | 5                        | 40             | 60       | 100        |
|              | HLPH3E1/<br>HLPH3E2 | Elective Course III<br>CSIR UGC - NET Preparatory course<br>- Physics /<br>Recent Trends in Physics | 6                       | 5         | 3                        | 25             | 75       | 100        |
| <b>Total</b> |                     |   | <b>30</b>               | <b>22</b> |                          |                |          | <b>500</b> |
| IV           | HLPH41              | Core Courses<br>Solid State Physics –II   | 6                       | 5         | 3                        | 25             | 75       | 100        |
|              | HLPH42              | Nuclear Physics   | 6                       | 5         | 3                        | 25             | 75       | 100        |
|              | HLPH43              | Molecular Spectroscopy  | 6                       | 4         | 3                        | 25             | 75       | 100        |
|              | HLPH4E1/<br>HLPH4E2 | Elective Course IV<br>Nano Physics /<br>Medical Physics   | 6                       | 5         | 3                        | 25             | 75       | 100        |
|              | HLPH4P              | Project and viva voce   | 6                       | 5         | -                        | -              | 100      | 100        |
| <b>Total</b> |                     |   | <b>30</b>               | <b>24</b> |                          |                |          | <b>500</b> |

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**DEPARTMENT OF PHYSICS  
PERCENTAGE OF SYLLABUS REVISION**

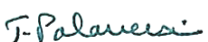
**M.SC PHYSICS**

**2017 AND LATER**

**ELECTIVE COURSE OFFERED FOR OTHER MAJOR STUDENTS**

| Semester | Course Code       | Course Title                     | Teaching Hours Per Week | Credits | Duration of Exam (Hours) | Marks Allotted |          |       |
|----------|-------------------|----------------------------------|-------------------------|---------|--------------------------|----------------|----------|-------|
|          |                   |                                  |                         |         |                          | Internal       | External | Total |
| II       | HLP2E1/<br>HLP2E2 | Applied Physics/ Microcontroller | 6                       | 5       | 3                        | 25             | 75       | 100   |

  
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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  
2014 AND LATER**




**THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),  
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**DEPARTMENT OF PHYSICS**  
**PERCENTAGE OF SYLLABUS REVISION**  
**M.SC PHYSICS**  
**2014 AND LATER**

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),  
SIVAKASI.  
DEPARTMENT OF PHYSICS  
M. SC PHYSICS – PROGRAMME CODE: 14PPH  
(For those who have joined in June 2014 and later)

|  |      |
|--|------|
| Total Number of Courses having changes | : 5  |
| Total Number of Courses                | : 24 |
| Percentage of Revision                 | :25% |

  
**Signature of the HOD with Seal**  
**Dr. (Mrs) S.SIVA DEVI**  
HOD of Physics  
The S.F.R.College for Women  
SIVAKASI - 626 123.

  
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**DEPARTMENT OF PHYSICS**  
**PERCENTAGE OF SYLLABUS REVISION**  
**M.SC PHYSICS**  
**2014 AND LATER**

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

| Semester     | Course Code                        | Course Title  | Teaching Hours Per Week | Credits   | Duration of Exam (Hours) | Marks Allotted |          |            |
|--------------|------------------------------------|---|-------------------------|-----------|--------------------------|----------------|----------|------------|
|              |                                    |   |                         |           |                          | Internal       | External | Total      |
| I            | 14PPH11                            | Core Courses<br>Mathematical Physics                                    | 6                       | 5         | 3                        | 25             | 75       | 100        |
|              | 14PPH12                            | Advanced Classical Mechanics  | 6                       | 4         | 3                        | 25             | 75       | 100        |
|              | 14PPH13                            | Linear Integrated Circuits  | 6                       | 4         | 3                        | 25             | 75       | 100        |
|              | 14PPH1L                            | Practical – I   | 6                       | 4         | 5                        | 40             | 60       | 100        |
|              | 14PPH1E1/<br>14PPH1E2/<br>14PPH1E3 | Elective Course I<br>Nanophysics/Microprocessors /<br>Microcontroller   | 6                       | 5         | 3                        | 25             | 75       | 100        |
| <b>Total</b> |                                    |   | <b>30</b>               | <b>22</b> |                          |                |          | <b>500</b> |
| II           | 14PPH21                            | Core Courses<br>Quantum Mechanics – I                                   | 6                       | 5         | 3                        | 25             | 75       | 100        |
|              | 14PPH22                            | Statistical Mechanics   | 6                       | 4         | 3                        | 25             | 75       | 100        |
|              | 14PPH23                            | Electromagnetic Theory  | 6                       | 4         | 3                        | 25             | 75       | 100        |
|              | 14PPH2L                            | Lab – II  | 6                       | 4         | 5                        | 40             | 60       | 100        |
|              | 14PPH2E                            | Elective Course II<br>Applied Physics                                   | 6                       | 5         | 3                        | 25             | 75       | 100        |
| <b>Total</b> |                                    |   | <b>30</b>               | <b>22</b> |                          |                |          | <b>500</b> |
| III          | 14PPH31                            | Core Courses<br>Solid State Physics –I                                  | 6                       | 5         | 3                        | 25             | 75       | 100        |
|              | 14PPH32                            | Quantum Mechanics – II  | 6                       | 4         | 3                        | 25             | 75       | 100        |
|              | 14PPH33                            | Computer Oriented Numerical<br>Methods                                  | 6                       | 4         | 3                        | 25             | 75       | 100        |
|              | 14PPH3L                            | Practical – III   | 6                       | 4         | 5                        | 40             | 60       | 100        |
|              | 14PPH3E/<br>14PPH3E1               | Elective Course III<br>Medical Physics<br>CSIR-UGC NET Prelims- Physics | 6                       | 5         | 3                        | 25             | 75       | 100        |
| <b>Total</b> |                                    |   | <b>30</b>               | <b>22</b> |                          |                |          | <b>500</b> |
| IV           | 14PPH41                            | Core Courses<br>Solid State Physics –II                                 | 6                       | 5         | 3                        | 25             | 75       | 100        |

  
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**DEPARTMENT OF PHYSICS**

**PERCENTAGE OF SYLLABUS REVISION**


**M.SC PHYSICS**


**2014 AND LATER**

|                       |  |           |           |   |    |     |            |
|-----------------------|--|-----------|-----------|---|----|-----|------------|
| 14PPH42               | Nuclear Physics  | 6         | 5         | 3 | 25 | 75  | 100        |
| 14PPH43               | Molecular Spectroscopy   | 6         | 4         | 3 | 25 | 75  | 100        |
| 14PPH4E1/<br>14PPH4E2 | <b>Elective Course IV</b><br>Advanced Digital Electronics/<br>Recent Trends in Physics | 6         | 5         | 3 | 25 | 75  | 100        |
| 14PPH4P               | Project and viva voce  | 6         | 5         | - | -  | 100 | 100        |
| <b>Total</b>          |  | <b>30</b> | <b>24</b> |   |    |     | <b>500</b> |

**ELECTIVE COURSE OFFERED FOR OTHER MAJOR STUDENTS**

| Semester  | Course Code | Course Title    | Teaching Hours Per Week | Credits | Duration of Exam (Hours) | Marks Allotted |          |       |
|-----------|-------------|-----------------|-------------------------|---------|--------------------------|----------------|----------|-------|
|           |             |                 |                         |         |                          | Internal       | External | Total |
| <b>II</b> | 14PPH2E     | Applied Physics | 6                       | 5       | 3                        | 25             | 75       | 100   |

  
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