

**Program Structure**  
**M.Sc Physics**  
**AY-2018-2019**

| Semester I (Total 6)   |             |                                 |                   |                       | Semester II (Total 6) |  |                   |           |
|------------------------|-------------|---------------------------------|-------------------|-----------------------|-----------------------|--|-------------------|-----------|
| SI no.                 | Course Name | Course Code                     | LP U              | SI no.                | Course Name           | Course Code                                      | LP U              |           |
| Year I                 | 1           | Mathematical methods            | PHY511T           | 404                   | 1                     | Classical Electrodynamics                        | PHY521T           | 404       |
|                        | 2           | Classical Mechanics             | MA504             | 303                   | 2                     | Quantum Mechanics I                              | PHY522T           | 404       |
|                        | 3           | Electronics and Instrumentation | PHY512T           | 404                   | 3                     | Condensed Matter Physics                         | PHY523T           | 404       |
|                        | 4           | Electronics Lab                 | PHY513P           | 064                   | 4                     | Condensed Matter Physics Lab                     | PHY524P           | 064       |
|                        | 5           | C Programming                   | MA521T            | 303                   | 5                     | Numerical Analysis                               | MA523T            | 303       |
|                        | 6           | C Programming Lab               | MA521P            | 032                   | 6                     | Numerical Analysis Lab                           | MA523P            | 032       |
|                        |             |                                 | <b>Total Unit</b> | <b>20</b>             |                       |  | <b>Total Unit</b> | <b>21</b> |
|                        |             | Summer Internship               | MSCIP101          | 5                     |                       |  |                   |           |
| Semester III (Total 6) |             |                                 |                   | Semester IV (Total 5) |                       |  |                   |           |
| SI no.                 | Course Name | Course Code                     | LP U              | SI no.                | Course Name           | Course Code                                      | LP U              |           |
| Year II                | 1           | Atomic and Molecular Physics    | PHY611T           | 404                   | 1                     | Experimental Technique                           | PHY621T           | 404       |
|                        | 2           | Statistical Mechanics           | PHY612T           | 404                   | 2                     | Master's Dissertation                            | PHY629            | 10        |
|                        | 3           | Quantum Mechanics II            | PHY613T           | 404                   | 3                     | Open Elective II<br>General Theory of Relativity | PHY663T           | 404       |
|                        | 4           | Nuclear and                     | PHY614T           | 404                   | 4                     | Open Elective III<br>Introduction to             | PHY662T           | 404       |

  
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|     | Particle Physics  |                   |           |   | Nano Physics                        |               |     |
|-----|---|-------------------|-----------|---|-------------------------------------|---------------|-----|
| 5.1 | Open Elective-I<br>Quantum Field<br>Theory                          | PHY653T           | 404       | 5 | Scientific<br>Writing and<br>Ethics | PHY525T       | 202 |
| 5.2 | Open Elective-I<br>Introduction to<br>Astronomy and<br>Astrophysics | PHY651T           | 404       |   |                                     | Total<br>Unit | 24  |
| 5.3 | Open Elective-I<br>Physics of<br>Semiconductor<br>Devices           | PHY652T           | 404       |   |                                     |               |     |
| 6   | Advance<br>Experimental<br>Lab I                                    | PHY615P           | 064       |   |                                     |               |     |
|     |   | <b>Total Unit</b> | <b>24</b> |   |                                     |               |     |

  
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