

**TOTAL COURSE-PROGRAMME OUTCOMES RELATIONSHIP**

|                |  |          |          |           | Programme Outcomes |   |   |   |   |   |   |   |   |    |    |    |    |    |
|----------------|--|----------|----------|-----------|--------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|
| Course Code    | Course Name                              | T        | P        | ECTS      | 1                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 1st Semester   |  |          |          |           |                    |   |   |   |   |   |   |   |   |    |    |    |    |    |
| <b>TEM5001</b> | SCIENTIFIC RESEARCH METHODS              | <b>2</b> | <b>0</b> | <b>6</b>  | 3                  | 5 | 4 | 3 | 4 | 5 | 4 | 3 | 3 | 3  | 5  | 5  | 5  | 4  |
| <b>FIZ5003</b> | SPECIAL TOPICS-I                         | <b>5</b> | <b>0</b> | <b>10</b> | 5                  | 5 | 5 | 3 | 5 | 5 | 4 | 5 | 5 | 5  | 5  | 5  | 5  | 5  |
| <b>FIZ5005</b> | THESIS RESEARCH                          | <b>0</b> | <b>1</b> | <b>20</b> | 5                  | 5 | 5 | 3 | 5 | 5 | 4 | 5 | 5 | 5  | 5  | 5  | 5  | 5  |
| <b>FIZ5007</b> | SEMINAR                                  | <b>0</b> | <b>2</b> | <b>6</b>  | 4                  | 5 | 4 | 3 | 5 | 5 | 4 | 4 | 4 | 5  | 5  | 5  | 4  | 4  |
| <b>FIZ5101</b> | LASER PHYSICS-I                          | <b>2</b> | <b>0</b> | <b>6</b>  | 3                  | 4 | 2 | 0 | 3 | 2 | 3 | 3 | 3 | 4  | 2  | 4  | 5  | 2  |
| <b>FIZ5103</b> | OPTOELECTRONICS-I                        | <b>2</b> | <b>0</b> | <b>6</b>  | 3                  | 5 | 2 | 1 | 3 | 2 | 3 | 3 | 3 | 3  | 2  | 5  | 4  | 2  |
| <b>FIZ5105</b> | STATISTICAL MECHANICS –I                 | <b>2</b> | <b>0</b> | <b>6</b>  | 3                  | 4 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3  | 3  | 4  | 5  | 1  |
| <b>FIZ5107</b> | DIELECTRIC PROPERTIES OF THE MATERIAL-I  | <b>2</b> | <b>0</b> | <b>6</b>  | 3                  | 5 | 2 | 0 | 3 | 2 | 3 | 3 | 3 | 3  | 2  | 5  | 5  | 2  |
| <b>FIZ5109</b> | MOLECULAR SPECTROSCOPY-I                 | <b>2</b> | <b>0</b> | <b>6</b>  | 3                  | 5 | 2 | 0 | 3 | 2 | 3 | 3 | 3 | 3  | 2  | 5  | 5  | 2  |
| <b>FIZ5111</b> | SOLAR ENERGY PHYSICS-I                   | <b>2</b> | <b>0</b> | <b>6</b>  | 3                  | 5 | 2 | 2 | 4 | 2 | 3 | 3 | 3 | 3  | 2  | 5  | 4  | 2  |
| <b>FIZ5113</b> | INFRARED AND RAMAN SPECTROSCOPY-I        | <b>2</b> | <b>0</b> | <b>6</b>  | 4                  | 4 | 2 | 1 | 3 | 2 | 3 | 4 | 4 | 3  | 2  | 4  | 5  | 2  |
| <b>FIZ5115</b> | CURRENT SUBJ. IN COND.MATTER PHYSICS-I   | <b>2</b> | <b>0</b> | <b>6</b>  | 4                  | 5 | 2 | 1 | 4 | 3 | 2 | 4 | 4 | 4  | 3  | 5  | 4  | 2  |
| <b>FIZ5117</b> | PHASE TRANSITIONS IN METALS AND ALLOYS-I | <b>2</b> | <b>0</b> | <b>6</b>  | 4                  | 4 | 1 | 0 | 3 | 2 | 2 | 4 | 4 | 4  | 2  | 4  | 4  | 1  |
| <b>FIZ5119</b> | NUCLEAR EXPERIMENTAL TECHNIQUES-I        | <b>2</b> | <b>0</b> | <b>6</b>  | 3                  | 4 | 2 | 0 | 3 | 3 | 3 | 3 | 3 | 4  | 3  | 4  | 4  | 2  |
| <b>FIZ5121</b> | CALCULATED GAS DYNAMICS-I                | <b>2</b> | <b>0</b> | <b>6</b>  | 4                  | 4 | 2 | 0 | 3 | 2 | 3 | 4 | 4 | 3  | 2  | 4  | 4  | 2  |
| <b>FIZ5123</b> | STAR ATMOSPHERES                         | <b>2</b> | <b>0</b> | <b>6</b>  | 3                  | 4 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 4  | 2  | 4  | 4  | 2  |
| <b>FIZ5125</b> | ADVANCED SOLID STATE PHYSICS-I           | <b>3</b> | <b>0</b> | <b>8</b>  | 4                  | 4 | 2 | 0 | 3 | 3 | 2 | 4 | 4 | 3  | 3  | 4  | 4  | 2  |

|                |   |          |          |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|----------|----------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>FIZ5127</b> | ADVANCED MOLECULAR PHYSICS-I            | <b>3</b> | <b>0</b> | <b>8</b>  | 3 | 4 | 2 | 0 | 3 | 2 | 3 | 3 | 3 | 4 | 2 | 4 | 4 | 2 |
| <b>FIZ5129</b> | HIGH ENERGY PHYSICS-I                   | <b>3</b> | <b>0</b> | <b>8</b>  | 3 | 4 | 2 | 0 | 4 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 4 | 2 |
| <b>FIZ5131</b> | PLASMA PHYSICS-I                        | <b>3</b> | <b>0</b> | <b>8</b>  | 3 | 4 | 1 | 1 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 1 |
| <b>FIZ5133</b> | MAGNETIC PROPERTIES OF THE MATERIAL-I   | <b>3</b> | <b>0</b> | <b>8</b>  | 3 | 4 | 2 | 1 | 4 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 2 |
| <b>FIZ5135</b> | OPTICAL PROPERTIES OF SEMICONDUCTORS-II | <b>3</b> | <b>0</b> | <b>8</b>  | 4 | 3 | 2 | 1 | 3 | 2 | 3 | 4 | 4 | 3 | 2 | 3 | 4 | 2 |
| <b>FIZ5137</b> | SOLID STATE ELECTRONICS-I               | <b>3</b> | <b>0</b> | <b>8</b>  | 3 | 4 | 2 | 0 | 4 | 2 | 3 | 3 | 3 | 4 | 2 | 4 | 5 | 2 |
| <b>FIZ5139</b> | ELECTRONICS FOR NUCLEAR PHYSICS-I       | <b>3</b> | <b>0</b> | <b>8</b>  | 4 | 5 | 2 | 1 | 3 | 2 | 3 | 4 | 4 | 3 | 2 | 5 | 4 | 2 |
| <b>FIZ5141</b> | STRUCT. DISORDERS IN SEMICONDUCTORS-I   | <b>3</b> | <b>0</b> | <b>8</b>  | 4 | 4 | 2 | 1 | 4 | 3 | 2 | 4 | 4 | 4 | 3 | 4 | 4 | 2 |
| <b>FIZ5143</b> | MATERIALS BAND THEORY-I                 | <b>3</b> | <b>0</b> | <b>8</b>  | 4 | 4 | 1 | 0 | 3 | 2 | 2 | 4 | 4 | 4 | 2 | 4 | 4 | 1 |
| <b>FIZ5145</b> | CRYSTAL STRUCTURE DETERMINATION-I       | <b>3</b> | <b>0</b> | <b>8</b>  | 3 | 4 | 2 | 0 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 2 |
| <b>FIZ5147</b> | THERMO AND STATIS. MECH. PROB.          | <b>3</b> | <b>0</b> | <b>8</b>  | 3 | 4 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 4 | 2 |
| <b>FIZ5149</b> | SUPERCONDUCTORS PHYSICS-I               | <b>3</b> | <b>0</b> | <b>8</b>  | 3 | 4 | 2 | 1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 4 | 4 | 2 |
| <b>FIZ5151</b> | CONDUCTIVITY IN METALS-I                | <b>3</b> | <b>0</b> | <b>8</b>  | 3 | 4 | 2 | 1 | 4 | 3 | 2 | 3 | 3 | 3 | 3 | 4 | 5 | 2 |
| <b>FIZ5153</b> | MAGNETISM-I                             | <b>3</b> | <b>0</b> | <b>8</b>  | 3 | 5 | 2 | 0 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 5 | 4 | 2 |
| <b>FIZ5155</b> | THEORETICAL STUD.IN SUPERCONDUCTORS-I   | <b>3</b> | <b>0</b> | <b>8</b>  | 4 | 4 | 2 | 0 | 4 | 2 | 3 | 4 | 4 | 3 | 2 | 4 | 5 | 2 |
| <b>FIZ5157</b> | CLASSICAL DYNAMICS                      | <b>3</b> | <b>0</b> | <b>8</b>  | 3 | 5 | 1 | 0 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 5 | 4 | 1 |
| <b>FIZ5159</b> | DIFERENTIAL GEOMETRY FOR PHYSICISTS     | <b>3</b> | <b>0</b> | <b>8</b>  | 3 | 4 | 2 | 2 | 4 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 4 | 2 |
| <b>FIZ5161</b> | HIGH ENERGY ASTROPHYSICS                | <b>3</b> | <b>0</b> | <b>8</b>  | 3 | 4 | 2 | 0 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 5 | 2 |
|                | <b>2nd Semester</b>                     |          |          |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>FIZ5004</b> | SPECIAL TOPICS-II                       | <b>5</b> | <b>0</b> | <b>10</b> | 5 | 5 | 5 | 3 | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| <b>FIZ5006</b> | THESIS RESEARCH                         | <b>0</b> | <b>1</b> | <b>20</b> | 5 | 5 | 5 | 3 | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| <b>FIZ5008</b> | SEMINAR                                 | <b>0</b> | <b>2</b> | <b>6</b>  | 4 | 5 | 4 | 3 | 5 | 5 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 4 |

|                |   |          |          |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|----------|----------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>FIZ5102</b> | LASER PHYSICS-II                          | <b>2</b> | <b>0</b> | <b>6</b> | 3 | 4 | 2 | 0 | 4 | 2 | 3 | 3 | 3 | 4 | 2 | 4 | 5 | 2 |
| <b>FIZ5104</b> | OPTOELECTRONICS-II                        | <b>2</b> | <b>0</b> | <b>6</b> | 3 | 5 | 2 | 0 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 4 | 2 |
| <b>FIZ5106</b> | STATISTICAL MECHANICS -II                 | <b>2</b> | <b>0</b> | <b>6</b> | 3 | 4 | 1 | 2 | 4 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 5 | 1 |
| <b>FIZ5108</b> | DIELECTRIC PROPERTIES OF THE MATERIAL II  | <b>2</b> | <b>0</b> | <b>6</b> | 3 | 5 | 2 | 0 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 5 | 5 | 2 |
| <b>FIZ5110</b> | MOLECULAR SPECTROSCOPY-II                 | <b>2</b> | <b>0</b> | <b>6</b> | 3 | 5 | 2 | 0 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 5 | 5 | 2 |
| <b>FIZ5112</b> | SOLAR ENERGY PHYSICS-II                   | <b>2</b> | <b>0</b> | <b>6</b> | 3 | 5 | 2 | 0 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 5 | 4 | 2 |
| <b>FIZ5114</b> | INFRARED AND RAMAN SPECTROSCOPY-II        | <b>2</b> | <b>0</b> | <b>6</b> | 4 | 4 | 2 | 1 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 5 | 2 |
| <b>FIZ5116</b> | CURRENT SUBJ. IN COND.MATTER PHYSICS-II   | <b>2</b> | <b>0</b> | <b>6</b> | 4 | 5 | 2 | 1 | 3 | 2 | 2 | 4 | 4 | 4 | 2 | 5 | 4 | 2 |
| <b>FIZ5118</b> | PHASE TRANSITIONS IN METALS AND ALLOYS-II | <b>2</b> | <b>0</b> | <b>6</b> | 4 | 4 | 1 | 1 | 3 | 3 | 2 | 4 | 4 | 4 | 3 | 4 | 4 | 1 |
| <b>FIZ5120</b> | NUCLEAR EXPERIMENTAL TECHNIQUES-II        | <b>2</b> | <b>0</b> | <b>6</b> | 3 | 4 | 2 | 0 | 3 | 2 | 3 | 3 | 3 | 4 | 2 | 4 | 4 | 2 |
| <b>FIZ5122</b> | CALCULATED GAS DYNAMICS-II                | <b>3</b> | <b>0</b> | <b>8</b> | 4 | 4 | 2 | 1 | 4 | 2 | 3 | 4 | 4 | 3 | 2 | 4 | 4 | 2 |
| <b>FIZ5124</b> | GRAVITATION AND COSMOLOGY-II              | <b>2</b> | <b>0</b> | <b>6</b> | 3 | 4 | 2 | 1 | 4 | 3 | 2 | 3 | 3 | 4 | 3 | 4 | 5 | 2 |
| <b>FIZ5126</b> | X-RAYS ANALY. METH. IN SUPERCONDUCTORS    | <b>2</b> | <b>0</b> | <b>6</b> | 4 | 5 | 2 | 0 | 4 | 2 | 2 | 4 | 4 | 3 | 2 | 5 | 5 | 2 |
| <b>FIZ5128</b> | X-RAYS PHOTOELECTRON SPECTROSCOPY-II      | <b>2</b> | <b>0</b> | <b>6</b> | 3 | 5 | 2 | 1 | 3 | 2 | 3 | 3 | 3 | 4 | 2 | 5 | 5 | 2 |
| <b>FIZ5130</b> | SPECTRAL ANALYZE METHODS-II               | <b>2</b> | <b>0</b> | <b>6</b> | 3 | 5 | 2 | 1 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 4 | 2 |
| <b>FIZ5132</b> | ADVANCED SOLID STATE PHYSICS-II           | <b>3</b> | <b>0</b> | <b>8</b> | 3 | 4 | 1 | 0 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 5 | 1 |
| <b>FIZ5134</b> | ADVANCED MOLECULAR PHYSICS II             | <b>3</b> | <b>0</b> | <b>8</b> | 3 | 5 | 2 | 0 | 4 | 2 | 3 | 3 | 3 | 3 | 2 | 5 | 4 | 2 |
| <b>FIZ5136</b> | HIGH ENERGY PHYSICS II                    | <b>3</b> | <b>0</b> | <b>8</b> | 4 | 4 | 2 | 2 | 3 | 2 | 3 | 4 | 4 | 3 | 2 | 4 | 5 | 2 |
| <b>FIZ5138</b> | PLASMA PHYSICS-II                         | <b>3</b> | <b>0</b> | <b>8</b> | 3 | 5 | 2 | 1 | 3 | 2 | 3 | 3 | 3 | 4 | 2 | 5 | 5 | 2 |
| <b>FIZ5140</b> | MAGNETIC PROPERTIES OF THE MATERIAL-II    | <b>3</b> | <b>0</b> | <b>8</b> | 4 | 5 | 2 | 1 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 5 | 5 | 2 |
| <b>FIZ5142</b> | METAL PHYSICS-II                          | <b>2</b> | <b>0</b> | <b>6</b> | 4 | 5 | 2 | 0 | 3 | 2 | 2 | 4 | 4 | 4 | 2 | 5 | 4 | 2 |
| <b>FIZ5144</b> | ELECTRONICS FOR NUCLEAR PHYSICS-II        | <b>3</b> | <b>0</b> | <b>8</b> | 4 | 4 | 1 | 0 | 4 | 3 | 2 | 4 | 4 | 4 | 3 | 4 | 5 | 1 |

|                |   |          |          |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|----------|----------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>FIZ5146</b> | STRUCT. DISORDERS IN SEMICONDUCTORS-II  | <b>3</b> | <b>0</b> | <b>8</b> | 3 | 5 | 2 | 0 | 3 | 2 | 3 | 3 | 3 | 4 | 2 | 5 | 4 | 2 |
| <b>FIZ5148</b> | MATERIALS BAND THEORY-II                | <b>3</b> | <b>0</b> | <b>8</b> | 3 | 4 | 2 | 2 | 4 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 4 | 2 |
| <b>FIZ5150</b> | CRYSTAL STRUCTURE DETERMINATION-II      | <b>3</b> | <b>0</b> | <b>8</b> | 3 | 4 | 2 | 0 | 4 | 3 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 2 |
| <b>FIZ5152</b> | STATISTICAL MECH. PROBLEMS SOLUTIONS-II | <b>3</b> | <b>0</b> | <b>8</b> | 3 | 4 | 2 | 0 | 4 | 2 | 2 | 3 | 3 | 3 | 2 | 4 | 4 | 2 |
| <b>FIZ5154</b> | SUPERCONDUCTORS PHYSICS-II              | <b>3</b> | <b>0</b> | <b>8</b> | 3 | 4 | 2 | 0 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 5 | 2 |
| <b>FIZ5156</b> | CONDUCTIVITY IN METALS-II               | <b>3</b> | <b>0</b> | <b>8</b> | 4 | 5 | 2 | 1 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 5 | 5 | 2 |
| <b>FIZ5158</b> | MAGNETISM-II                            | <b>3</b> | <b>0</b> | <b>8</b> | 3 | 5 | 1 | 1 | 3 | 2 | 3 | 3 | 3 | 4 | 2 | 5 | 5 | 1 |
| <b>FIZ5160</b> | THEORET. STUDIES IN SUPERCONDUCTORS-II  | <b>3</b> | <b>0</b> | <b>8</b> | 3 | 5 | 2 | 1 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 5 | 4 | 2 |
| <b>FIZ5162</b> | FUNDAMENTALS OF SOLIDIFICATION-II       | <b>3</b> | <b>0</b> | <b>8</b> | 3 | 4 | 2 | 0 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 5 | 2 |
| <b>FIZ5164</b> | INTRODUCTION TO GENERAL RELATIVITY      | <b>3</b> | <b>0</b> | <b>8</b> | 3 | 5 | 1 | 1 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 5 | 4 | 1 |
| <b>FIZ5166</b> | GENERAL RELATIVITY AND APPLICATIONS     | <b>3</b> | <b>0</b> | <b>8</b> | 3 | 4 | 2 | 1 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 5 | 2 |
| <b>FIZ5168</b> | NANOTECHNOLOGY                          | <b>3</b> | <b>0</b> | <b>8</b> | 4 | 5 | 2 | 0 | 4 | 2 | 3 | 4 | 4 | 3 | 2 | 5 | 5 | 2 |
| <b>FIZ5170</b> | COMPUTATIONAL PHYSICS                   | <b>2</b> | <b>0</b> | <b>6</b> | 3 | 5 | 2 | 0 | 4 | 3 | 2 | 3 | 3 | 4 | 3 | 5 | 5 | 2 |
| <b>FIZ5172</b> | ACCELERATOR PHYSICS AND APPLICATIONS    | <b>3</b> | <b>0</b> | <b>8</b> | 3 | 5 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 5 | 4 | 2 |
| <b>FIZ5174</b> | STRUCTURE AND EVOLUTION OF STARS        | <b>3</b> | <b>0</b> | <b>8</b> | 3 | 4 | 2 | 1 | 4 | 2 | 3 | 3 | 3 | 4 | 2 | 4 | 5 | 2 |
| <b>FIZ5176</b> | STRUCTURAL DISORDERS IN CRYSTALS        | <b>2</b> | <b>0</b> | <b>6</b> | 3 | 5 | 1 | 1 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 5 | 4 | 1 |
| <b>FIZ5178</b> | SOLIDIFICATION PRENCIPLES               | <b>2</b> | <b>0</b> | <b>6</b> | 3 | 4 | 2 | 0 | 4 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 4 | 2 |
| <b>FIZ5180</b> | BIO-MEDICAL PHYSICS-II                  | <b>3</b> | <b>0</b> | <b>8</b> | 3 | 4 | 2 | 0 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 5 | 4 | 2 |
| <b>FIZ5182</b> | FLUX PINNING IN SUPERCONDUCTORS         | <b>2</b> | <b>0</b> | <b>6</b> | 3 | 4 | 2 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 2 |
| <b>FIZ5184</b> | CRYSTAL GROWTH TECHNIQUES               | <b>2</b> | <b>0</b> | <b>6</b> | 4 | 4 | 2 | 2 | 3 | 2 | 3 | 4 | 3 | 3 | 2 | 4 | 4 | 2 |
| <b>FIZ5186</b> | NUCLEAR STRUCTURE PHYSICS-II            | <b>3</b> | <b>0</b> | <b>8</b> | 4 | 4 | 2 | 0 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 4 | 2 |
| <b>FIZ5188</b> | NUCLEAR MAGNETIC RESONANCE-II           | <b>3</b> | <b>0</b> | <b>8</b> | 4 | 5 | 2 | 0 | 4 | 2 | 3 | 4 | 4 | 4 | 2 | 4 | 4 | 2 |

|                |                                    |          |          |          |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|------------------------------------|----------|----------|----------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>FIZ5190</b> | ADVANCED SUBJECTS IN LASER PHYSICS | <b>3</b> | <b>0</b> | <b>8</b> | <b>  </b> | 3 | 5 | 2 | 0 | 3 | 2 | 2 | 3 | 3 | 4 | 2 | 4 | 5 | 2 |
|----------------|------------------------------------|----------|----------|----------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|