

**FLOW CHART AND SCHEME OF B.Sc. (HONS) MATHEMATICS 2018-21**

| Sem          | Course 1  | Course 2  | Course 3   | Course 4   | Course 5   | Course 6  | GP                | Cont hrs   | Credits    |
|--------------|---|---|--|--|--|---|-------------------|------------|------------|
| I            | MAL 101<br>Calculus and<br>Geometry<br>3-1-0( 4)      | MAL 103<br>Intro to Probability<br>3-1-0( 4)          | MAL 105<br>Algebra I<br>3-1-0( 4)  | CLL 101<br>Effective Comm.-I<br>1-0-2 (2)  | ASL 140<br>EVS<br>3-0-0 (3)  |   | MAR<br>100<br>(1) | 18         | <b>18</b>  |
| II           | MAL 102<br>Analysis I<br>3-1-0( 4)                    | MAL 104<br>Diff Equations I<br>3-1-0( 4)              | MAL 108<br>Algebra II<br>3-1-0( 4)   | SML 150<br>Leadership<br>2-1-0(3)  | CLL 102<br>Effective Comm.-II<br>1-0-2 (2)   | <b>CLL 120<br/>Human Values<br/>(2-0-0)2</b>          | MAR<br>110<br>(1) | 20         | <b>20</b>  |
| III          | MAL 201<br>Analysis II<br>3-1-0( 4)                   | MAL 203<br>Differential<br>Equations II<br>3-1-0( 4)  | MAL 205<br>Algebra III<br>(3-1-0) 4  | MAL 207<br>Operations Research<br>(3-1-0) 4  | Prog. Elective I<br>3-0-2 (4)<br><i>( Lin. Prog/ Math. Modelling/<br/>Data Struc.Algos</i> | <b>Foreign<br/>Language<br/>Elective<br/>(1-2-0)3</b> | MAR<br>200<br>(1) | 24         | <b>24</b>  |
| IV           | SML300<br>Entrepreneurship<br>2-1-0 (3)               | MAL 206<br>Mathematical<br>Statistics<br>3-1-0( 4)    | MAL 308<br>Linear Algebra<br>(3-1-0) 4   | Prog.Elective II<br>3-0-2 (4)<br><i>(Image Processing./<br/>DBMS. /<br/>Data Visual.Tech.)</i>           | Open Elective I<br>3 (3)   | Open Elective<br>II<br>3 (3)                          | MAR<br>210<br>(1) | 22         | <b>22</b>  |
| V            | MAL 321<br>Mathematical<br>Methods<br>3-1-0( 4)       | MAL 310<br>Numerical Analysis<br>2-1-2 (4)            | MAL301<br>Data Analysis<br>(3-0-2) 4   | Prog.Elective III<br>(MOOC)<br>3-0-2 (4)<br><i>(Mechanics/ Statis.<br/>Modeling./ Number<br/>theory)</i> | Open Elective III<br>3 (3)   |   | MAR<br>300<br>(1) | 19         | <b>20</b>  |
| VI           | MAL 311<br>Intro. to Complex<br>Analysis<br>3-1-0( 4) | MAL 313<br>Integral & Vector<br>Calculus<br>3-1-0( 4) | Prog. Elective IV<br>(MOOC)<br>3-0-2 (4)<br><i>(Financial<br/>Maths/<br/>Metric Space./<br/>Predictive<br/>Analytics</i> | Open Elective IV<br>3 (3)  | <b>Project<br/>(0-0-6)3</b>  | Creativity and<br>innovation<br>outcome<br>(1)        | MAR<br>310<br>(1) | 16         | <b>20</b>  |
| <b>Total</b> |   |   |  |  |  |   |                   | <b>119</b> | <b>124</b> |

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**Course Flow Chart for B.Sc (H) Mathematics**