

**DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES  
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**

Program Code : **XXX M.Sc. (Economics)**  
 Department : **Department of Humanities and Social Sciences**  
 Year : **I**  
 Model : **1-A**

| Teaching Scheme             |              |                                                  |              |           | Contact Hours/Week |   |   | Exam Duration |           |
|-----------------------------|--------------|--------------------------------------------------|--------------|-----------|--------------------|---|---|---------------|-----------|
| S.No.                       | Subject Code | Course Title                                     | Subject Area | Credits   | L                  | T | P | Theory        | Practical |
| <b>Semester-I (Autumn)</b>  |              |                                                  |              |           |                    |   |   |               |           |
| 1.                          | HSC-501      | Microeconomics-I                                 | PCC          | 4         | 3                  | 1 | 0 | 3             | 0         |
| 2.                          | HSC-503      | Macroeconomics-I                                 | PCC          | 4         | 3                  | 1 | 0 | 3             | 0         |
| 3.                          | HSC-505      | Basic Econometrics                               | PCC          | 4         | 3                  | 0 | 2 | 3             | 0         |
| 4.                          | HSC-507      | Development Economics                            | PCC          | 4         | 3                  | 1 | 0 | 3             | 0         |
| 5.                          | HSC-509      | Mathematical Economics                           | PCC          | 4         | 3                  | 1 | 0 | 3             | 0         |
| 6.                          |              | Social Science Course                            | SSC          | 2         | -                  | - | - | -             | -         |
|                             |              | <b>Total</b>                                     |              | <b>22</b> |                    |   |   |               |           |
| <b>Semester-II (Spring)</b> |              |                                                  |              |           |                    |   |   |               |           |
| 1.                          | HSC-502      | Microeconomics-II                                | PPI          | 4         | 3                  | 1 | 0 | 3             | 0         |
| 2.                          | HSC-504      | Macroeconomics-II                                | PPI          | 4         | 3                  | 1 | 0 | 3             | 0         |
| 3.                          | HSC-506      | Public Policy: Theory and Practice               | PPI          | 4         | 3                  | 1 | 0 | 3             | 0         |
| 4.                          |              | Program Elective-I                               | PPI          | 4         | -                  | - | - | -             | -         |
| 5.                          |              | Science, Technology, and Advanced Research-tools | STAR         | 3         | -                  | - | - | -             | -         |
| 6.                          | HSC-700      | Seminar                                          | SEM          | 2         | -                  | - | - | -             | -         |
|                             |              | <b>Total</b>                                     |              | <b>21</b> |                    |   |   |               |           |

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Program Code : **XXX M.Sc. (Economics)**  
 Department : **Department of Humanities and Social Sciences**  
 Year : **II**  
 Model : **1-A**

| Teaching Scheme             |              |                                          |              |           | Contact Hours/Week |   |   | Exam Duration |           |
|-----------------------------|--------------|------------------------------------------|--------------|-----------|--------------------|---|---|---------------|-----------|
| S.No.                       | Subject Code | Course Title                             | Subject Area | Credits   | L                  | T | P | Theory        | Practical |
| <b>Semester-I (Autumn)</b>  |              |                                          |              |           |                    |   |   |               |           |
| 1.                          | HSC-691      | Internship Social Activity               | ISA          | 3         | -                  | - | - | -             | -         |
| 2.                          | HSC-511      | Financial Economics: Theory and Practice | PPI          | 4         | 3                  | 0 | 2 | 3             | 0         |
| 3.                          |              | Program Elective-II                      | PPI          | 4         | -                  | - | - | -             | -         |
| 4.                          |              | Program Elective-III                     | PPI          | 4         | -                  | - | - | -             | -         |
| 5.                          | HSC-601      | Project Stage-I                          | PROJECT      | 4         | -                  | - | - | -             | -         |
|                             |              | <b>Total</b>                             |              | <b>19</b> |                    |   |   |               |           |
| <b>Semester-II (Spring)</b> |              |                                          |              |           |                    |   |   |               |           |
| 1.                          |              | Program Elective-IV                      | PEC          | 4         | -                  | - | - | -             | -         |
| 2.                          |              | Program Elective-V                       | PEC          | 4         | -                  | - | - | -             | -         |
| 3.                          | HSC-602      | Project Stage-II                         | PROJECT      | 6         | -                  | - | - | -             | -         |
|                             |              | <b>Total</b>                             |              | <b>14</b> |                    |   |   |               |           |

| Summary                            |           |    |    |    |
|------------------------------------|-----------|----|----|----|
| Semester                           | 1         | 2  | 3  | 4  |
| <b>Semester-wise Total Credits</b> | 22        | 21 | 19 | 14 |
| <b>Total Credits</b>               | <b>76</b> |    |    |    |

**M.Sc. (Economics)**

### Program Elective Courses

| Teaching Scheme |              |                                            |              |         | Contact Hours/Week |   |   | Exam Duration |           |
|-----------------|--------------|--------------------------------------------|--------------|---------|--------------------|---|---|---------------|-----------|
| S.No.           | Subject Code | Course Title                               | Subject Area | Credits | L                  | T | P | Theory        | Practical |
| 1.              | HSL-521      | International Economics                    | PEC          | 4       | 3                  | 1 | 0 | 3             | 0         |
| 2.              | HSL-522      | Environmental Economics                    | PEC          | 4       | 3                  | 1 | 0 | 3             | 0         |
| 3.              | HSL-523      | Advanced Econometrics                      | PEC          | 4       | 3                  | 0 | 2 | 3             | 0         |
| 4.              | HSL-524      | Money, Banking and Financial Markets       | PEC          | 4       | 3                  | 1 | 0 | 3             | 0         |
| 5.              | HSL-525      | Advanced Topics in Growth Theory           | PEC          | 4       | 3                  | 1 | 0 | 3             | 0         |
| 6.              | HSL-526      | Efficiency and Productivity Analysis       | PEC          | 4       | 3                  | 0 | 2 | 3             | 0         |
| 7.              | HSL-527      | Agriculture Economics & Policy             | PEC          | 4       | 3                  | 1 | 0 | 3             | 0         |
| 8.              | HSL-528      | Handling Large-scale Survey Data           | PEC          | 4       | 3                  | 0 | 2 | 3             | 0         |
| 9.              | HSL-529      | Social and Economic Networks               | PEC          | 4       | 3                  | 0 | 2 | 3             | 0         |
| 10.             | HSL-530      | Analytics for Business and Society         | PEC          | 4       | 3                  | 0 | 2 | 3             | 0         |
| 11.             | HSL-531      | Financial Econometrics                     | PEC          | 4       | 3                  | 0 | 2 | 3             | 0         |
| 12.             | HSL-532      | Labour Economics : Theory & Practical      | PEC          | 4       | 3                  | 1 | 0 | 3             | 0         |
| 13.             | HSL-533      | International Finance                      | PEC          | 4       | 3                  | 1 | 0 | 3             | 0         |
| 14.             | HSL-504      | Behavioral Economics                       | PEC          | 4       | 3                  | 1 | 0 | 3             | 0         |
| 15.             | HSL-534      | Machine Learning Applications in Economics | PEC          | 4       | 3                  | 1 | 0 | 3             | 0         |
| 16.             | HSL-535      | Urban Economics                            | PEC          | 4       | 3                  | 1 | 0 | 3             | 0         |
| 17.             | HSL-536      | International Trade                        | PEC          | 4       | 3                  | 1 | 0 | 3             | 0         |

**Note: Students should opt for PECs in such a way that they earn 03 credits from practical components in the entire programme.**

**M.Sc. (Economics)**

**Science, Technology, and Advanced Research-tools Basket**

| Teaching Scheme |              |                                                             |              |         | Contact Hours/Week |   |   | Exam Duration |           |
|-----------------|--------------|-------------------------------------------------------------|--------------|---------|--------------------|---|---|---------------|-----------|
| S.No.           | Subject Code | Course Title                                                | Subject Area | Credits | L                  | T | P | Theory        | Practical |
| 1.              | HST-501      | Statistical Application for Behavioural and Social Research | STAR         | 3       | 2                  | 1 | 0 | 3             | 0         |

**Social Sciences Course Basket**

| Teaching Scheme |              |                                         |              |         | Contact Hours/Week |   |   | Exam Duration |           |
|-----------------|--------------|-----------------------------------------|--------------|---------|--------------------|---|---|---------------|-----------|
| S.No.           | Subject Code | Course Title                            | Subject Area | Credits | L                  | T | P | Theory        | Practical |
| 1.              | HSS-501      | Economic and Business Environment       | SSC          | 2       | 2                  | 0 | 0 | 2             | 0         |
| 2.              | HSS-502      | Sociology of Work                       | SSC          | 2       | 2                  | 0 | 0 | 2             | 0         |
| 3.              | HSS-503      | Learning and Memory                     | SSC          | 2       | 2                  | 0 | 0 | 2             | 0         |
| 4.              | HSS-504      | Advanced Technical Communication Skills | SSC          | 2       | 1                  | 0 | 2 | 0             | 0         |
| 5.              | HSS-505      | Workplace Dynamics                      | SSC          | 2       | 2                  | 0 | 0 | 2             | 0         |