


# PROGRAMME COURSE STRUCTURE

|  |                 | <div>BIRLA INSTITUTE OF TECHNOLOGY-MESRA,<br/>RANCHI</div> <div>COURSE STRUCTURE<br/>FOR</div> <div>Bachelor of Commerce (Honours/Honours with Research)</div> <div>Discipline-Specific Electives in Financial Analytics</div> <div>as per NEP-2020</div> <div>(w.e.f. Academic Session 2025-26)</div> |                |                          |   |   |   |                  |
|---|-----------------|--|----------------|--------------------------|---|---|---|------------------|
| Semester/<br>Session of<br>Study<br>(Proposed)                                    | Course<br>Level | Category<br>of Course  | Course<br>Code | Courses                  | Mode of delivery and credits<br>L-Lecture; T-Tutorial;<br>P-Practical |   |   | Total<br>Credits |
|   |                 |  |                |                          | L   | T | P | C                |
| First<br>Monsoon  | FIRST           | Theory   |                |                          |   |   |   |                  |
|   |                 | DSC  | BF25101        | Microeconomics           | 4   | 0 | 0 | 4                |
|   |                 | DSC  | BF25102        | Business Studies         | 3   | 0 | 0 | 3                |
|   |                 | DSC  | BF25103        | Financial Accounting     | 4   | 0 | 0 | 4                |
|   |                 | AECC   | HS24131        | Communication Skills -I  | 0   | 0 | 3 | 1.5              |
|   |                 | VAC  | BF25104        | Indian Knowledge System  | 2   | 0 | 0 | 2                |
|   |                 | Laboratories   |                |                          |   |   |   |                  |
|   |                 | DSC  | BF25105        | Financial Accounting Lab | 0   | 0 | 2 | 1                |
|   |                 | SEC  | BF25106        | Stock Market Operations  | 0   | 0 | 4 | 2                |
|   |                 | SEC  | BF25107        | Spreadsheet Applications | 0   | 0 | 4 | 2                |
| TOTAL   |                 |  |                |                          | 19.5  |   |   |                  |

DSC: 12  
VAC: 2  
AECC: 1.5  
SEC: 4

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| Semester/<br>Session of<br>Study<br>(Proposed) | Course<br>Level | Category<br>of Course | Course<br>Code | Courses                              | Mode of delivery and credits<br>L-Lecture; T-Tutorial;<br>P-Practical |   |      | Total<br>Credits |
|--|-----------------|-----------------------|----------------|--------------------------------------|---|---|------|------------------|
|  |                 |                       |                |                                      | L   | T | P    | C                |
| Second<br>Spring                               | FIRST           | Theory                |                |                                      |   |   |      |                  |
|  |                 | DSC                   | BF25108        | Macro Economics                      | 4   | 0 | 0    | 4                |
|  |                 | DSC                   | BF25109        | Principles of Management             | 3   | 1 | 0    | 4                |
|  |                 | DSC                   | BF25110        | Business Laws                        | 3   | 0 | 0    | 3                |
|  |                 | DSC                   | BF25111        | Business Statistics                  | 3   | 0 | 0    | 3                |
|  |                 | *DSE                  | BF25112        | Introduction to Financial<br>Markets | 2   | 0 | 0    | 2                |
|  |                 | AECC                  | HS24133        | Communication Skills - II            | 0   | 0 | 3    | 1.5              |
|  |                 | VAC                   | BF25113        | Constitution of India                | 2   | 0 | 0    | 2                |
|  |                 | Laboratories          |                |                                      |   |   |      |                  |
|  |                 | DSC                   | BF25114        | Business Statistics Lab              | 0   | 0 | 2    | 1                |
|  |                 | SEC                   | BF25115        | Data Visualization and<br>Reporting  | 0   | 0 | 4    | 2                |
|  |                 | TOTAL                 |                |                                      |   |   | 22.5 |                  |

DSC: 15

DSE: 2

VAC: 2

AECC: 1.5

SEC: 2

### EXIT OPTION AFTER FIRST YEAR WITH CERTIFICATION

**\*Note - Two** skill-based Vocational courses of 2 credits will be offered at the end of the 1st Year (Level 1) and are mandatory for students taking exit after 1<sup>st</sup> year. However, these courses will be optional and non-credit for other students.

**Courses at the end of the First Year:**

**BF25116 Basics of AI and ML = 02 Credits (L-1, T-0, P-2)**

**BF25117 Digital Marketing Applications = 02 Credits (L-1, T-0, P-2)**

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| Semester/<br>Session of<br>Study<br>(Proposed) | Course<br>Level | Categor<br>y of<br>Course | Course<br>Code | Courses                                    | Mode of delivery and credits<br>L-Lecture; T-Tutorial;<br>P-Practical |   |    | Total<br>Credits |
|--|-----------------|---------------------------|----------------|--|---|---|----|------------------|
|  |                 |                           |                |  | L   | T | P  | C                |
| Third<br>Monsoon                               | SECOND          | DSC                       | BF25201        | Corporate Accounting                       | 4   | 0 | 0  | 4                |
|  |                 | DSC                       | BF25202        | Banking Theory and Practice                | 3   | 0 | 0  | 3                |
|  |                 | DSC                       | BF25203        | Financial Management                       | 3   | 0 | 0  | 3                |
|  |                 | *DSE                      | BF25204        | Fundamentals of Financial<br>Analytics     | 2   | 0 | 0  | 2                |
|  |                 | *DSE                      | BF25205        | Financial Statement Analysis               | 2   | 0 | 0  | 2                |
|  |                 | VAC                       | BF25206        | Environment Science                        | 2   | 0 | 0  | 2                |
|  |                 | AECC                      | BF25207        | Creativity and Critical Thinking<br>Skills | 2   | 1 | 0  | 3                |
|  |                 | TOTAL                     |                |  |   |   | 19 |                  |

DSC: 10  
DSE:4  
VAC: 2  
AECC: 3

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| Semester/<br>Session of<br>Study<br>(Proposed) | Course<br>Level | Category of<br>Course | Course<br>Code | Courses   | Mode of delivery and credits<br>L-Lecture; T-Tutorial;<br>P-Practical |   |   | Total<br>Credits |
|--|-----------------|-----------------------|----------------|---|---|---|---|------------------|
|  |                 |                       |                |   | L   | T | P | C                |
| Fourth<br>Spring                               | SECOND          | Theory                |                |   |   |   |   |                  |
|  |                 | DSC                   | BF25208        | Financial Markets and<br>Institutions             | 3   | 0 | 0 | 3                |
|  |                 | DSC                   | BF25209        | Cost Accounting                                   | 4   | 0 | 0 | 4                |
|  |                 | DSC                   | BF25210        | Bank Financial Management                         | 4   | 0 | 0 | 4                |
|  |                 | *DSE                  | BF25211        | Forecasting Techniques                            | 3   | 0 | 0 | 3                |
|  |                 | *DSE                  | BF25212        | Technical Analysis and<br>Algorithmic Trading     | 2   | 0 | 0 | 2                |
|  |                 | AECC                  | BF25213        | Effective Writing and<br>Presentation Skills      | 1   | 1 | 0 | 2                |
|  |                 | Laboratories          |                |   |   |   |   |                  |
|  |                 | *DSE                  | BF25214        | Technical Analysis and<br>Algorithmic Trading Lab | 0   | 0 | 2 | 1                |
|  |                 | TOTAL                 |                |   |   |   |   | 19               |

DSC: 11

DSE:6

AECC: 2

#### EXIT OPTION AFTER SECOND YEAR WITH UG DIPLOMA


**\*Note - Two** skill-based Vocational courses of 2 credits will be offered at the end of the 2nd Year (Level-2) and are mandatory for students taking exit after the 2<sup>nd</sup> year. However, these courses will be optional and non-credit for other students.

#### Course at the end of the Second Year:

**BF25315 Mutual Fund Operations = 02 Credits (L-1, T-0, P-2)**

**BF25215 Digital Marketing Analytics = 02 Credits (L-1, T-0, P-2)**







| Semester/<br>Session of<br>Study<br>(Proposed) | Course<br>Level | Category of<br>Course | Course<br>Code | Courses           | Mode of delivery and<br>credits L-Lecture; T-<br>Tutorial;<br>P-Practical |   |   | Total<br>Credits |
|--|-----------------|-----------------------|----------------|-------------------|---|---|---|------------------|
|  |                 |                       |                |                   | L   | T | P |                  |
| Fourth<br>Spring                               | SECOND          | Project               | BF301          | Summer Internship | 0   | 0 | 0 | 2                |

| Semester/<br>Session of<br>Study<br>(Proposed) | Course<br>Level | Category<br>of Course | Course<br>Code | Courses                                    | Mode of delivery and credits<br>L-Lecture; T-Tutorial;<br>P-Practical |   |    | Total<br>Credit<br>s |
|--|-----------------|-----------------------|----------------|--|---|---|----|----------------------|
|  |                 |                       |                |  | L   | T | P  |                      |
| Fifth<br>Monsoon                               | THIRD           | Theory                |                |  |   |   |    |                      |
|  |                 | DSC                   | BF25302        | Income Tax Law and Practice                | 4   | 0 | 0  | 4                    |
|  |                 | DSC                   | BF25303        | Security Analysis and Portfolio Management | 4   | 0 | 0  | 4                    |
|  |                 | DSC                   | BF25304        | Corporate Finance                          | 4   | 0 | 0  | 4                    |
|  |                 | *DSE                  | BF25305        | Financial Analytics Using Python           | 2   | 0 | 0  | 2                    |
|  |                 | *DSE                  | BF25306        | Financial Derivatives                      | 3   | 0 | 0  | 3                    |
|  |                 | MDC                   | BF25307        | Financial Risk Management                  | 3   | 0 | 0  | 3                    |
|  |                 | Laboratories          |                |  |   |   |    |                      |
|  |                 | DSE                   | BF25308        | Financial Analytics Using Python Lab       | 0   | 0 | 2  | 1                    |
|  |                 | TOTAL                 |                |  |   |   | 21 |                      |

DSC: 12  
DSE: 6  
MDC: 3

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| Semester/<br>Session of<br>Study<br>(Proposed) | Course<br>Level | Category of<br>Course | Course<br>Code | Courses                                | Mode of delivery and credits<br>L-Lecture; T-Tutorial;<br>P-Practical |   |    | Total<br>Credits |
|--|-----------------|-----------------------|----------------|--|---|---|----|------------------|
|  |                 |                       |                |  | L   | T | P  | C                |
| Sixth<br>Spring                                | THIRD           | Theory                |                |  |   |   |    |                  |
|  |                 | DSC                   | BF25309        | Goods and Services Tax                 | 4   | 0 | 0  | 4                |
|  |                 | DSE                   | BF25310        | Portfolio Analytics                    | 2   | 0 | 0  | 2                |
|  |                 | DSE                   | BF25311        | Big Data Analytics in<br>Finance       | 2   | 0 | 0  | 2                |
|  |                 | VAC                   | BF25312        | Co-Curricular and Social<br>Activities | 0   | 0 | 0  | 2                |
|  |                 | MDC                   | BF25313        | Blockchain Technology                  | 2   | 1 | 0  | 3                |
|  |                 | MDC                   | BF25314        | AI & ML for Finance                    | 2   | 1 | 0  | 3                |
|  |                 | SEC                   | BF25315        | Mutual Fund Operations                 | 2   | 0 | 2  | 3                |
|  |                 | Laboratories          |                |  |   |   |    |                  |
|  |                 | DSE                   | BF25316        | Portfolio Analytics Lab                | 0   | 0 | 2  | 1                |
|  |                 | *DSE                  | BF25317        | Big Data Analytics in<br>Finance Lab   | 0   | 0 | 2  | 1                |
|  |                 | TOTAL                 |                |  |   |   | 21 |                  |

DSC: 4  
 DSE: 6  
 MDC: 6  
 SEC: 3  
 VAC: 2

#### EXIT OPTION AFTER THIRD YEAR WITH DEGREE (B. Com.)

Total Credits (I Year + II Year + III Year = 124)

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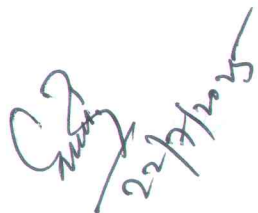
| Semester/<br>Session of<br>Study<br>(Proposed) | Course<br>Level | Category<br>of Course | Course<br>Code | Courses                                      | Mode of delivery and credits<br>L-Lecture; T-Tutorial;<br>P-Practical |   |    | Total<br>Credits |
|--|-----------------|-----------------------|----------------|--|---|---|----|------------------|
|  |                 |                       |                |  | L   | T | P  |                  |
| Seventh<br>Monsoon                             | FOURTH          | Theory                |                |  |   |   |    |                  |
|  |                 | DSC                   | BF25401        | Forensic Accounting                          | 3   | 0 | 0  | 3                |
|  |                 | DSC                   | BF25402        | Corporate Laws                               | 3   | 1 | 0  | 4                |
|  |                 | DSC                   | BF25403        | Audit and Assurance                          | 3   | 1 | 0  | 4                |
|  |                 | DSC                   | BF25404        | Entrepreneurship<br>Development              | 3   | 1 | 0  | 4                |
|  |                 | DSE                   | BF25405        | Investment Valuation Tools<br>and Techniques | 3   | 1 | 0  | 4                |
|  |                 | DSE                   | BF25406        | Investment Banking                           | 4   | 0 | 0  | 4                |
|  |                 | Laboratories          |                |  |   |   |    |                  |
|  |                 | DSC                   | BF25407        | Forensic Accounting Lab                      | 0   | 0 | 2  | 1                |
|  |                 | TOTAL                 |                |  |   |   | 24 |                  |

DSC: 16

DSE: 8













| Semester/<br>Session of<br>Study<br>(Proposed) | Course<br>Level | Category<br>of Course | Course<br>Code | Courses                      | Mode of delivery and credits<br>L-Lecture; T-Tutorial;<br>P-Practical |   |   | Total<br>Credits |
|--|-----------------|-----------------------|----------------|------------------------------|---|---|---|------------------|
|  |                 |                       |                |                              | L   | T | P |                  |
| Eighth<br>Spring                               | FOURTH          | Project               | BF25408        | Research Project/ Internship | 0   | 0 | 0 | 12               |
|  |                 | TOTAL                 |                |                              |   |   |   | 12               |

The courses marked with “\*” will be taught by the Faculty Members / Experts from NSE Academy.

Project: 12

Students who secure 7.5 CGPA and above at the end of the sixth semester are eligible to undertake the research stream in the fourth year.

### BACHELOR'S DEGREE WITH HONOURS/HONOURS WITH RESEARCH

#### Acronyms Expanded

- AECC: Ability Enhancement Compulsory Course
- DSC (C) : Discipline Specific Core (Course)
- SEC : Skill Enhancement Course
- VAC : Value Added Course
- MDC : Multidisciplinary Course
- DSE : Discipline Specific Elective
- L-T-P : Lecture - Tutorial - Practical (s)

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