

# DEPARTMENT OF EDUCATION

# Department of Education



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Grounded in the Universal  
Fundamental Underlies: 3.11 (CSE, AIT, 1983) - 100% Accredited  
think • Innovate • transform

**Batch 2018 - 2022**

**Course B.Sc.B.Ed**

| Course Code | Course Name                                        | CO1   | CO2   | CO3   | CO4   | CO5   |
|-------------|----------------------------------------------------|-------|-------|-------|-------|-------|
| XBE101      | Tamil -I                                           | 85.09 | 81.94 | 83.79 | 80.41 | 79.47 |
| XBE102      | English - I                                        | 91.3  | 92.98 | 93    | 91.75 | 92.49 |
| XBE103H     | Holistic Education                                 | 93.39 | 93.76 | 94.42 | 92.74 |       |
| XBE104      | Introduction to Computers                          | 79.59 | 79.45 | 80.79 | 77.19 | 75.66 |
| XBE105      | Understanding Education and its perspective        | 93.48 | 94.28 | 93.71 | 93.48 | 93.69 |
| XBE106      | Differential Calculus and Trigonometry             | 54.71 | 52.32 | 57.52 | 58.44 | 56.01 |
| XBE107      | Properties of Matter and Sound                     | 64.44 | 66.25 | 67.37 | 64.93 | 64.12 |
| XBEC108     | General Chemistry - I                              | 91.45 | 88.41 | 89.57 | 88.11 | 88.6  |
| XBES108     | Programming in C                                   | 76.48 | 65.68 | 62.4  | 62.15 | 64.01 |
| XBE109      | Physics Practical - I                              | 95.99 | 93.67 | 91.95 | 92.42 | 89.1  |
| XBEC110     | Volumetric Analysis Lab - I                        | 87.72 | 85.43 | 88.35 | 89.51 | 91.2  |
| XBES110     | Programming in C Lab                               | 90.22 | 91.71 | 92.63 |       |       |
|             |                                                    |       |       |       |       |       |
| XBE201      | Tamil - II                                         | 78.75 | 79.5  | 77.35 | 76.41 | 75.54 |
| XBE202      | English - II                                       | 84.11 | 78.47 | 74.78 | 71.43 |       |
| XBE203E     | Environmental Education                            | 81.11 | 82.86 | 77.95 |       |       |
| XBE204      | Software Packages - Lab                            | 89.47 | 89.32 | 90.85 | 93.78 |       |
| XBE205      | Educational Psychology - Understanding the Learner | 85.13 | 84.9  | 86.06 | 86.39 | 87.01 |
| XBE206      | Algebra and Numerical Analysis                     | 63.5  | 60.3  | 61.88 | 59.68 | 58.18 |
|             |                                                    |       |       |       |       |       |
| XBE207      | Mechanics and Relativity                           | 65.56 | 59.79 | 63.01 | 63.43 | 62.89 |
| XBES208     | Data Structures and Algorithms                     | 62.5  | 60.03 | 61.05 | 62.84 | 63.14 |
| XBEC208     | General Chemistry - II                             | 72.36 | 72.14 | 74.17 | 68.8  | 69.6  |
| XBE209      | Physics Practical - II                             | 100   | 99.48 | 94.81 | 99.26 | 99.26 |
|             |                                                    |       |       |       |       |       |
| XBEC210     | Volumetric Analysis Lab - II                       | 100   | 99.78 | 99.33 |       |       |
| XBES210     | Data Structures using C Lab                        | 80.21 | 83.64 | 86.92 |       |       |
|             |                                                    |       |       |       |       |       |
| XBE301      | Tamil - III                                        | 79.72 | 82.84 | 81.49 | 81.85 | 80.37 |
| XBE302      | English - III                                      | 90.64 | 92.41 | 92.84 | 92.49 |       |

|                |                                                             |       |       |       |       |       |
|----------------|-------------------------------------------------------------|-------|-------|-------|-------|-------|
| <b>XBE303</b>  | Theatre, Art and Heritage Craft Traditions                  | 100   | 100   | 100   |       |       |
| <b>XBEC304</b> | Programming in C (for MPC group Students)                   | 72.1  | 65.08 | 64.56 | 62.33 |       |
| <b>XBES304</b> | Visual Programming (For CsMP group Students)                | 82.02 | 75.28 | 75.42 | 69.31 |       |
| <b>XBE305</b>  | Educational Psychology – Understanding the Learning Process | 76.56 | 78.1  | 80.15 | 79.92 |       |
| <b>XBE306</b>  | Analytical Geometry (3D) and Integral Calculus              | 100   | 89.65 | 88.23 | 88.89 | 88.16 |
| <b>XBE307</b>  | Heat and Thermo Dynamics                                    | 61.01 | 68.33 | 70.55 | 68.67 | 68.59 |
| <b>XBEC308</b> | General Chemistry - III                                     | 63.66 | 65.54 | 69.58 | 68.84 | 69.39 |
| <b>XBES308</b> | Object Oriented Programming with C++ and Java               | 64.41 | 64.09 | 62.65 | 62.87 | 61.1  |
| <b>XBE309</b>  | Physics Practical - III                                     | 94.39 | 94.39 | 94.39 | 94.39 | 94.39 |
| <b>XBEC310</b> | Semimicro Inorganic Qualitative Analysis (ANIONS) Lab       | 98.84 | 95.94 | 96.77 |       |       |
| <b>XBES310</b> | Programming in C++ and Java Lab                             | 91.98 | 92.53 | 92.9  |       |       |
| <b>XBES311</b> | Practicum and School Internship - I                         | 97.94 | 97.94 | 97.94 | 97.94 | 97.94 |
|                |                                                             |       |       |       |       |       |
| <b>XBE401</b>  | Tamil - IV                                                  | 85.35 | 80.94 | 79.71 | 77.49 | 76.22 |
| <b>XBE402</b>  | English - IV                                                | 84.03 | 79.37 | 76.71 | 77.4  |       |
| <b>XBE403</b>  | Social Engineering                                          | 95.88 | 90.92 | 88.84 |       |       |
| <b>XBE404</b>  | Introduction to MATLAB                                      | 92.51 | 96.43 | 93.95 |       |       |
| <b>XBE405</b>  | Assessment of Learning                                      | 81.53 | 73.47 | 69.91 | 66.07 |       |
| <b>XBE406</b>  | Vector Calculus and Fourier Series.                         | 84.9  | 80.36 | 74.83 | 71.55 | 71.54 |
| <b>XBE407</b>  | Optics and Spectroscopy                                     | 62.45 | 60.9  | 59    | 59.84 | 59.95 |
| <b>XBEC408</b> | General Chemistry - IV                                      | 81.74 | 81.71 | 80.98 | 79.1  | 77.72 |
| <b>XBES408</b> | Computer Graphics                                           | 57.5  | 57    | 66.75 | 66.35 | 63.49 |
| <b>XBE409</b>  | Physics Practical - IV                                      | 100   | 99.67 | 99.67 | 99.53 | 99.53 |

|                 |                                                                  |       |       |       |     |     |
|-----------------|------------------------------------------------------------------|-------|-------|-------|-----|-----|
| <b>XBEC410</b>  | Semimicro Inorganic Qualitative Analysis (CATIONS) Lab           | 99.64 | 99.82 | 98.9  |     |     |
| <b>XBES410</b>  | Computer Graphics Lab                                            | 92.12 | 91.03 | 85.65 |     |     |
| <b>XBE411</b>   | Practicum and School Internship-II                               | 100   | 100   | 100   | 100 |     |
| <b>XBE501</b>   | Soft Skill Development and Peace Education                       | 100   | 100   | 100   | 100 | -   |
| <b>XBE502</b>   | Basics of e – Learning Education                                 | 100   | 100   | 100   |     |     |
| <b>XBE503</b>   | Teaching Approaches and Strategies                               | 90    | 90    | 90    | 90  |     |
| <b>XBES504A</b> | Pedagogy of Mathematics - I                                      | 97    | 100   | 97    | 100 | 97  |
| <b>XBES504B</b> | Pedagogy of Physics- I                                           | 100   | 100   | 100   | 100 |     |
| <b>XBEC504C</b> | Pedagogy of Chemistry - I                                        | 100   | 100   | 100   | 100 | 82  |
| <b>XBES504C</b> | Pedagogy of Computer Science - I                                 | 91    | 91    | 82    | 82  | 82  |
| <b>XBE505</b>   | Sequences and Series                                             | 100   | 100   | 100   | 100 | 100 |
| <b>XBE506</b>   | Electricity and Magnetism                                        | 100   | 100   | 100   | 100 | 100 |
| <b>XBEC507</b>  | Inorganic Chemistry - I                                          | 100   | 100   | 100   | 100 | 100 |
| <b>XBES507</b>  | Database Management Systems                                      | 91    | 91    | 91    | 91  | 91  |
| <b>XBE508</b>   | Physics Practical - V                                            | 100   | 100   | 100   | 100 | 100 |
| <b>XBEC509</b>  | Gravimetric Analysis Lab                                         | 100   | 100   | 100   |     |     |
| <b>XBES509</b>  | RDBMS Lab                                                        | 100   | 100   | 100   |     |     |
| <b>XBE510</b>   | Practicum and School Internship-III                              | 100   | 100   | 100   |     |     |
| <b>XBE601</b>   | Indian Constitutions and Human Rights                            | 100   | 100   | 100   |     |     |
| <b>XBE602</b>   | Introduction to LATEX                                            | 100   | 100   | 100   |     |     |
| <b>XBE603</b>   | Secondary Education in India – Status, Challenges and Strategies | 100   | 100   | 100   | 100 | 100 |
| <b>XBES604A</b> | Pedagogy of Mathematics – II                                     | 83    | 83    | 83    | 83  | 83  |



|                 |                                                          |     |     |     |     |     |
|-----------------|----------------------------------------------------------|-----|-----|-----|-----|-----|
| <b>XBEC604B</b> | Pedagogy of Physics- II                                  | 57  | 57  | 57  | 57  |     |
| <b>XBEC604C</b> | Pedagogy of Chemistry - II                               | 100 | 100 | 100 | 100 | 100 |
| <b>XBES604C</b> | Pedagogy of Computer Science - II                        | 100 | 100 | 100 | 100 | 100 |
| <b>XBE605</b>   | Differential Equations and Laplace Transforms            | 100 | 100 | 100 | 100 | 100 |
| <b>XBE606</b>   | Atomic and Solid State Physics                           | 100 | 100 | 100 | 100 | 100 |
| <b>XBEC607</b>  | Organic Chemistry - I                                    | 100 | 100 | 100 | 100 | 100 |
| <b>XBES607</b>  | Operating Systems                                        | 91  | 91  | 91  | 91  | 91  |
| <b>XBE608</b>   | Physics Practical - VI                                   | 100 | 100 | 100 | 100 | 100 |
| <b>XBEC609</b>  | Organic Qualitative Analysis and Organic Preparation Lab | 100 | 100 | 100 | 100 | 100 |
| <b>XBES609</b>  | Operating Systems Lab                                    | 100 | 100 | 100 | 100 | 100 |
| <b>XBE610</b>   | Practicum and School Internship - IV                     | 100 | 100 | 100 | 100 | 100 |
|                 |                                                          |     |     |     |     |     |
| <b>XBE701</b>   | Educational Innovation and Management                    | 100 | 100 | 100 | 100 | 100 |
| <b>XBE702</b>   | Algebra                                                  | 96  | 92  | 92  |     | 87  |
| <b>XBE703</b>   | Real Analysis                                            | 100 | 97  | 97  | 97  | 97  |
| <b>XBE704</b>   | Basic Electronics                                        |     |     |     |     |     |
| <b>XBE705</b>   | Wave Mechanics and Nuclear Physics                       | 100 | 97  | 97  | 97  | 97  |
| <b>XBEC706</b>  | Physical Chemistry - I                                   | 100 | 100 | 100 | 100 | 95  |
| <b>XBES706</b>  | Computer Networks                                        | 100 | 100 | 91  | 91  | 91  |
| <b>XBEC707</b>  | Organic Chemistry - II                                   | 100 | 100 | 100 | 95  | 100 |
| <b>XBES707</b>  | Web Technology                                           | 100 | 100 | 100 | 100 | 100 |
| <b>XBE708</b>   | Physics Practical - VII                                  | 94  | 94  | 91  | 94  | 91  |
| <b>XBEC709</b>  | Physical Chemistry Lab - I                               | 100 | 100 | 100 | 100 | 100 |
| <b>XBES709</b>  | Web Technology Lab                                       | 100 | 100 | 100 |     |     |
| <b>XBE710</b>   | Practicum and School Internship - V                      | 97  | 92  | 99  | 90  | 93  |
|                 |                                                          |     |     |     |     |     |
| <b>XBE801</b>   | Statistics and Operations Research                       | 100 | 100 | 100 | 100 | 100 |
| <b>XBE802</b>   | Complex Analysis                                         |     |     |     |     |     |
| <b>XBE803</b>   | Digital Electronics                                      | 97  | 100 | 100 | 100 | 100 |
| <b>XBE804</b>   | Microprocessor and Microcontroller                       | 97  | 97  | 97  | 97  | 97  |

|                |                                                    |     |     |     |     |     |
|----------------|----------------------------------------------------|-----|-----|-----|-----|-----|
| <b>XBEC805</b> | Physical Chemistry - II                            | 100 | 100 | 100 | 100 | 100 |
| <b>XBES805</b> | Software Engineering                               | 100 | 91  | 100 | 100 | 100 |
| <b>XBEC806</b> | Analytical Chemistry                               | 100 | 97  | 100 | 100 | 100 |
| <b>XBES806</b> | Data mining                                        | 100 | 100 | 100 | 100 | 100 |
| <b>XBES07</b>  | Physics Practical - VIII                           | 97  | 100 | 100 | 100 | 94  |
| <b>XBEC808</b> | Physical Chemistry Lab - II                        | 100 | 100 | 100 | 100 | 100 |
| <b>XBES808</b> | Software Development Lab (Mini Project)            | 100 | 100 | 100 | 100 | 100 |
| <b>XBES09C</b> | Guidance and Counseling in School                  | 97  | 100 | 100 | 100 | 100 |
| <b>XBES10A</b> | Discrete Mathematics                               | 100 | 100 | 100 | 100 | 100 |
| <b>XBES10B</b> | Electrical Appliances and Renewable Energy Sources | 100 | 100 | 100 | 100 | 100 |
| <b>XBES10D</b> | Food Chemistry                                     | 100 | 100 | 100 | 100 | 100 |
| <b>XBES10F</b> | C # and . Net Framework                            | 100 | 100 | 100 | 100 | 100 |

## Department of Education

Batch 2018-2022



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Established by govt of India)  
Kozhikode-Cheerthuruthy, Kerala-686 015, India  
think • innovate • transform

### COURSEWISE CO VS PO DIRECT ATTAINMET

| COURSEWISE CO VS PO DIRECT ALIGNMENT |       |       |       |       |       |       |       |       |       |       |       | COURSEWISE CO VS PO DIRECT ALIGNMENT |      | COURSEWISE CO VS PO DIRECT ALIGNMENT |  |  |  |
|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------------------|------|--------------------------------------|--|--|--|
| Course                               | PO1   | PO2   | PO3   | PO4   | PO5   | PO6   | PO7   | PO8   | PO9   | PO10  | PO11  | PO12                                 | PSO1 | PSO2                                 |  |  |  |
| XBE101                               | 80    | 82    | 80    | 81    | 82    | 90    | 100   | 100   | 90    | 80    | 0     |                                      |      |                                      |  |  |  |
| XBE102                               | 77.79 | -     | -     | -     | -     | 79.38 | 78.14 | -     | -     | -     | -     |                                      |      |                                      |  |  |  |
| XBE103H                              | 78.38 | 78.15 | 78.61 | 78.15 | 78.38 | 78.38 | 78.54 | 78.38 | 78.61 | 78.38 | -     |                                      |      |                                      |  |  |  |
| XBE104                               | 74.4  | 75.23 | 74.4  | 73.84 | 74.72 | -     | -     | -     | 73.93 | -     | -     |                                      |      |                                      |  |  |  |
| XBE105                               | 85.82 | 85.82 | 85.82 | 85.82 | 85.82 | -     | -     | 86.53 | 85.82 | -     | -     |                                      |      |                                      |  |  |  |
| XBE106                               | 67.47 | -     | -     | -     | -     | 67.47 | -     | -     | 76.24 | 67.47 | -     |                                      |      |                                      |  |  |  |
| XBE107                               | 65.85 | 65.85 | -     | -     | -     | 65.85 | 66.4  | 65.85 | -     | -     | -     |                                      |      |                                      |  |  |  |
| XBEC108                              | 90.6  | 90.6  | 90.6  | 90.6  | 90.6  | -     | -     | -     | 90.6  | -     | -     |                                      |      |                                      |  |  |  |
| XBES108                              | 58.85 | 58.85 | -     | 58.85 | 58.85 | 58.85 | -     | 58.85 | 58.82 | 58.85 | -     |                                      |      |                                      |  |  |  |
| XBE109                               | 92.95 | 92.95 | 92.95 | 91.79 | 90.74 | 97.43 | -     | -     | 92.95 | 92.95 | -     |                                      |      |                                      |  |  |  |
| XBEC110                              | 93.2  | -     | -     | -     | -     | -     | -     | -     | 93.2  | 93.2  | -     |                                      |      |                                      |  |  |  |
| XBES110                              | 97.63 | -     | -     | 97.63 | -     | -     | -     | -     | 97.63 | 97.63 | -     |                                      |      |                                      |  |  |  |
|                                      | 80.25 | 78.68 | 83.73 | 82.21 | 80.16 | 76.77 | 80.77 | 77.92 | 83.78 | 81.21 |       |                                      |      |                                      |  |  |  |
| XBE201                               | 74.72 | 74.72 | 74.72 | -     | 74.72 | 74.72 | 73.11 | 74.72 | 74.72 | 74.72 | 74.72 |                                      |      |                                      |  |  |  |
| XBE202                               | 76.19 | 76.19 | 76.19 | -     | 64.63 | 64.2  | 64.63 | 76.19 | 76.19 | 64.2  | -     |                                      |      |                                      |  |  |  |
| XBE203E                              | 79.58 | -     | 79.68 | 79.68 | 79.68 | -     | 80.18 | 80.47 | -     | 79.68 | -     |                                      |      |                                      |  |  |  |
| XBE204                               | 94.15 | -     | -     | 94.15 | 94.15 | -     | -     | -     | 94.15 | 94.15 | -     |                                      |      |                                      |  |  |  |
| XBE205                               | 64.37 | -     | 67.08 | 67.08 | 69.8  | 67.08 | 67.22 | 69.8  | 68.71 | 72.57 | -     |                                      |      |                                      |  |  |  |
| XBE206                               | 68.88 | 68.88 | 68.88 | 68.88 | -     | 68.88 | 68.88 | 68.88 | -     | 68.88 | -     |                                      |      |                                      |  |  |  |
| XBE207                               | 70.62 | -     | -     | 70.62 | 70.62 | 72.06 | 70.66 | -     | -     | -     | -     |                                      |      |                                      |  |  |  |
| XBEC208                              | 92.95 | -     | 92.95 | 92.95 | 92.99 | 92.02 | -     | -     | -     | 92.95 | -     |                                      |      |                                      |  |  |  |
| XBES208                              | 79.78 | 71.65 | 71.65 | 70.51 | 71.65 | -     | 80.86 | 80.86 | 76.83 | 73.1  | -     |                                      |      |                                      |  |  |  |
| XBE209                               | 91.51 | 97.33 | -     | -     | 97.33 | -     | -     | -     | -     | 91.51 | -     |                                      |      |                                      |  |  |  |
| XBEC210                              | 100   | 100   | 100   | -     | -     | 100   | 100   | 100   | -     | 100   | -     |                                      |      |                                      |  |  |  |
| XBES210                              | 96.78 | 96.78 | 96.78 | -     | 96.68 | -     | 96.8  | -     | 96.92 | -     | -     |                                      |      |                                      |  |  |  |
|                                      | 82.46 | 83.65 | 80.88 | 77.70 | 81.23 | 76.99 | 78.04 | 78.70 | 81.25 | 81.18 |       |                                      |      |                                      |  |  |  |
| XBE301                               | 81.25 | 81.25 | 81.25 | 81.25 | 81.25 | 81.25 | 81.25 | 81.25 | 81.25 | 81.25 | 81.25 |                                      |      |                                      |  |  |  |
| XBE302                               | 92.09 | 92.09 | 92.09 | 92.09 | 92.09 | 92.09 | 92.09 | 92.09 | 92.09 | 92.09 | -     |                                      |      |                                      |  |  |  |
| XBE303                               | 100   | -     | -     | -     | -     | -     | 100   | 100   | 100   | 100   | -     |                                      |      |                                      |  |  |  |
| XBES304                              | 66.02 | 66.02 | -     | 66.02 | 66.02 | 66.02 | -     | 66.02 | 63.45 | 66.02 | -     |                                      |      |                                      |  |  |  |
| XBEC304                              | 75.51 | 75.51 | -     | 75.51 | 75.51 | 75.51 | -     | 75.51 | 72.37 | 75.51 | -     |                                      |      |                                      |  |  |  |
| XBE305                               | -     | 78.69 | 78.69 | 78.69 | 78.69 | 78.69 | 78.69 | 78.69 | -     | 78.24 | -     |                                      |      |                                      |  |  |  |
| XBE306                               | 90.99 | 100   | 100   | 90.99 | 90.99 | 100   | 90.99 | 100   | 90.99 | 90.99 | -     |                                      |      |                                      |  |  |  |
| XBE307                               | 67.43 | 67.43 | -     | -     | -     | 67.43 | 66.72 | 67.43 | -     | -     | -     |                                      |      |                                      |  |  |  |
| XBES308                              | 67.4  | -     | 67.4  | 67.4  | -     | -     | -     | -     | 67.4  | -     | 67.4  |                                      |      |                                      |  |  |  |
| XBEC308                              | 63.03 | 63.2  | 63.03 | -     | 63.06 | -     | -     | -     | 63.03 | 63.03 | 63.03 |                                      |      |                                      |  |  |  |
| XBE309                               | 94.39 | 94.39 | 94.39 | 94.39 | 94.39 | 94.39 | 94.39 | 94.39 | -     | -     | -     |                                      |      |                                      |  |  |  |
| XBEC310                              | 97.19 | -     | -     | -     | -     | -     | -     | -     | 97.19 | 97.19 | -     |                                      |      |                                      |  |  |  |
| XBES310                              | 92.47 | -     | -     | 92.47 | 92.47 | -     | -     | -     | 92.47 | 92.47 | -     |                                      |      |                                      |  |  |  |
| XBE311                               | 97.94 | -     | -     | 97.94 | 97.94 | -     | -     | -     | 97.94 | 97.94 | -     |                                      |      |                                      |  |  |  |
|                                      | 83.71 | 79.67 | 82.60 | 83.94 | 83.46 | 82.02 | 87.15 | 84.27 | 83.69 | 85.35 |       |                                      |      |                                      |  |  |  |
| XBE401                               | 79.94 | 79.94 | 79.94 | 79.94 | 79.94 | 79.94 | 79.94 | 79.94 | 79.94 | 79.94 | 79.94 |                                      |      |                                      |  |  |  |
| XBE402                               | 79.38 | 79.38 | 79.38 | 79.38 | 79.38 | 79.38 | 79.38 | 79.38 | 78.04 | 78.39 | -     |                                      | 100  |                                      |  |  |  |
| XBE403                               | 91.88 | 91.88 | 91.88 | -     | 91.88 | 91.88 | 91.88 | 91.88 | 91.88 | 91.88 | -     |                                      |      |                                      |  |  |  |
| XBE404                               | 94.29 | -     | -     | 94.29 | 94.29 | -     | -     | -     | 94.29 | 94.29 | -     |                                      |      |                                      |  |  |  |
| XBE405                               | 72.75 | 72.75 | 72.75 | -     | 72.75 | 72.75 | 72.75 | 72.75 | 72.75 | 72.75 | -     |                                      |      |                                      |  |  |  |
| XBE406                               | 76.64 | -     | -     | -     | -     | 76.64 | -     | -     | 76.64 | 76.64 | -     |                                      |      |                                      |  |  |  |



|          |          |          |          |          |          |          |          |          |          |          |         |         |  |  |  |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|--|--|--|
| XBE407   | 60.43    | 60.43    | 59.6     | 59.92    | 59.6     | 60.43    | 60.43    | 60.43    | 59.95    | 59.95    | -       |         |  |  |  |
| XBEC408  | 80.25    | 80.25    | -        | 80.25    | 80.25    | 80.25    | -        | 80.25    | 79.27    | 80.25    | -       |         |  |  |  |
| XBES408  | 62.22    | 62.22    | -        | 62.22    | 62.22    | 62.22    | -        | 62.22    | 65.53    | 62.22    | -       |         |  |  |  |
| XBE409   | 87.73    | 87.73    | 87.73    | 99.67    | 84.67    | -        | 87.73    | 87.73    | -        | -        | -       |         |  |  |  |
| XBEC410  | 99.45    | -        | -        | -        | -        | -        | -        | -        | 99.45    | 99.45    | -       |         |  |  |  |
| XBES410  | 89.6     | -        | -        | 89.6     | -        | -        | -        | -        | 89.6     | 89.6     | -       |         |  |  |  |
| XBE411   | 100      | -        | -        | -        | 92.5     | -        | -        | -        | 92.5     | 92.5     | -       |         |  |  |  |
|          | 82.66    | 76.82    | 78.55    | 80.66    | 79.75    | 75.44    | 78.69    | 76.82    | 81.65    | 81.49    |         |         |  |  |  |
| XBE501   | -        | -        | 100      | 100      | 100      | 100      | 100      | 100      | 100      | 100      | -       | #DIV/0! |  |  |  |
| XBES02   | -        | -        | 100      | 100      | 100      | 100      | 100      | 100      | 100      | 100      | -       |         |  |  |  |
| XBE503   | -        | 90       | 90       | 90       | 90       | 90       | 90       | 90       | 90       | 90       |         |         |  |  |  |
| XBES04A  | 98       | 98       | 97.77778 | 98       | 98.33333 | 98       | 97.91667 | 98       | 98       | 98.33333 | -       |         |  |  |  |
| XBES04B  | -        | -        | 100      | 100      | 100      | 100      | 100      | 100      | 100      | 100      |         |         |  |  |  |
| XBEC504C | -        | -        | 100      | 100      | 100      | 100      | 100      | 100      | 100      | 100      |         |         |  |  |  |
| XBES504C | 85.45    | 85.45    | 85.61    | 85.45    | 85.23    | 85.45    | 86.36    | 85.45    | 85.45    | 81.82    |         |         |  |  |  |
| XBE505   | 100      | -        | -        | 100      | 100      | -        | 100      | -        | -        | 100      |         |         |  |  |  |
| XBES06   | 100      | -        | -        | 100      | 100      | -        | 100      | -        | -        | 100      |         |         |  |  |  |
| XBEC507  | 100      | 100      | -        | 100      | 100      | 100      | 100      | 100      | -        | 100      |         |         |  |  |  |
| XBES507  | 90.90909 | 90.90909 | -        | 90.90909 | 90.90909 | 90.90909 | -        | 90.90909 | 90.90909 | 90.90909 |         |         |  |  |  |
| XBE508   | 100      | 100      | 100      | 100      | 100      | 100      | 100      | 100      | -        | -        |         |         |  |  |  |
| XBEC509  | 100      | 100      | -        | 100      | 100      | 100      | -        | 100      | 100      | 100      |         |         |  |  |  |
| XBES509  | 100      | -        | -        | 100      | 100      | -        | -        | -        | 100      | 100      |         |         |  |  |  |
| XBE510   | 100      | 100      | 100      | -        | 100      | -        | 100      | -        | 100      | 100      | -       |         |  |  |  |
| Average  | 97.44    | 95.55    | 97.04    | 97.45    | 97.63    | 96.76    | 97.86    | 96.76    | 96.76    | 97.00    | #DIV/0! |         |  |  |  |
| XBE601   | 100      | -        | -        | 100      | 100      | -        | -        | -        | 100      | 100      |         |         |  |  |  |
| XBEC602  | 100      | -        | -        | 100      | 100      | -        | -        | -        | 100      | 100      |         |         |  |  |  |
| XBE603   | -        | 100      | 100      | -        | 100      | -        | 100      | 100      | -        | 100      |         |         |  |  |  |
| XBES604A | 82.85714 | 82.85714 | 82.85714 | 82.85714 | 82.85714 | 82.85714 | 82.85714 | 82.85714 | 82.85714 | -        |         |         |  |  |  |
| XBES604B | 56.66667 | -        | 56.66667 | 56.66667 | -        | -        | -        | -        | 56.66667 | -        |         |         |  |  |  |
| XBEC604C | 100      | 100      | 100      | 100      | 100      | -        | -        | -        | 100      | -        |         |         |  |  |  |
| XBES604C | 100.00   | 100.00   | 100.00   | 100.00   | 100.00   | 100.00   | 100.00   | 100.00   | 100.00   | -        |         |         |  |  |  |
| XBE605   | 100      | -        | -        | -        | -        | 100      | -        | -        | -        | 100      |         |         |  |  |  |
| XBES606  | 100      | 100      | -        | 100      | 100      | 100      | -        | 100      | -        | 100      |         |         |  |  |  |
| XBEC607  | 100      | 100      | -        | 100      | -        | 100      | -        | 100      | -        | 100      |         |         |  |  |  |
| XBES607  | 90.90909 | -        | 90.90909 | -        | -        | -        | -        | -        | 90.90909 | -        |         |         |  |  |  |
| XBE608   | 100      | 100      | 100      | -        | -        | -        | 100      | 100      | -        | -        |         |         |  |  |  |
| XBES609  | 100      | -        | -        | -        | -        | -        | -        | -        | 100      | 100      | -       |         |  |  |  |
| XBEC609  | 100      | -        | -        | -        | -        | -        | -        | -        | 100      | 100      |         |         |  |  |  |
| XBES610  | 100      | -        | -        | 100      | -        | -        | -        | -        | 100      | 100      |         |         |  |  |  |
| Average  | 94.65    | 97.14    | 90.06    | 93.28    | 96.57    | 96.57    | 95.71    | 97.14    | 92.27    | 100.00   |         |         |  |  |  |
| XBES701  | 97.58    | 97.58    | 97.73    | 97.58    | 97.35    | 97.58    | 97.73    | 97.58    | 97.58    | 96.97    |         |         |  |  |  |
| XBES702  | 100.00   | -        | -        | -        | -        | 100.00   | -        | -        | 100.00   | 100.00   |         |         |  |  |  |
| XBES703  | 95.15    | 95.15    | -        | 95.15    | 93.94    | -        | 95.15    | 95.15    | 95.15    | -        |         |         |  |  |  |
| XBES704  | 97.58    | 97.58    | -        | -        | -        | 97.58    | 97.98    | 97.58    | -        | -        | -       |         |  |  |  |
| XBES705  | 97.58    | 97.58    | -        | -        | -        | 97.58    | 97.98    | 97.58    | -        | -        | -       |         |  |  |  |
| XBEC706  | 70.43    | 70.43    | -        | 70.50    | 71.74    | 70.43    | -        | 70.43    | -        | 70.43    |         |         |  |  |  |
| XBES706  | 94.55    | 94.55    | -        | 94.55    | 94.55    | 94.55    | -        | 94.55    | 90.91    | 94.55    | -       |         |  |  |  |
| XBEC707  | 100.00   | 100.00   | -        | 100.00   | 100.00   | 100.00   | -        | 100.00   | 100.00   | 100.00   | -       |         |  |  |  |
| XBES707  | 100.00   | 100.00   | -        | 100.00   | 100.00   | 100.00   | -        | 100.00   | 100.00   | 100.00   | -       |         |  |  |  |
| XBES708  | 100.00   | 100.00   | 100.00   | 100.00   | 100.00   | 94.29    | 100.00   | 100.00   | -        | -        |         |         |  |  |  |
| XBEC709  | 100.00   | -        | -        | 100.00   | -        | -        | -        | -        | 100.00   | 100.00   |         |         |  |  |  |
| XBES709  | 100.00   | -        | -        | 100.00   | -        | -        | -        | 100.00   | 100.00   | 100.00   | -       |         |  |  |  |
| XBES710  | 100.00   | -        | -        | 100.00   | -        | -        | -        | -        | 100.00   | 100.00   |         |         |  |  |  |
|          | 96.37    | 94.76    | 98.87    | 95.78    | 93.94    | 94.67    | 97.77    | 94.69    | 97.07    | 95.11    |         |         |  |  |  |



|                |               |               |               |               |               |               |               |               |               |               |   |  |  |  |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---|--|--|--|
| <b>XBE801</b>  | 96.36         | -             | -             | -             | -             | 96.36         | -             | -             | 96.36         | 96.36         |   |  |  |  |
| <b>XBE802</b>  | 98.79         | -             | -             | -             | -             | 98.79         | -             | -             | 98.79         | 98.79         |   |  |  |  |
| <b>XBE803</b>  | <b>99.39</b>  | <b>99.39</b>  | -             | <b>99.39</b>  | <b>99.39</b>  | <b>99.39</b>  | -             | <b>99.39</b>  | <b>100.00</b> | <b>99.39</b>  |   |  |  |  |
| <b>XBE804</b>  | <b>96.97</b>  | <b>96.97</b>  | -             | <b>96.97</b>  | <b>96.97</b>  | <b>96.97</b>  | <b>96.97</b>  | <b>96.97</b>  |               |               |   |  |  |  |
| <b>XBEC805</b> | 92.00         | 92.00         | -             | 92.00         | 92.00         | 92.00         | -             | 92.00         | 90.00         | 92.00         | - |  |  |  |
| <b>XBES805</b> | <b>98.18</b>  | <b>98.18</b>  | -             | <b>98.18</b>  | <b>98.18</b>  | <b>98.18</b>  | -             | <b>98.18</b>  | <b>100.00</b> | <b>98.18</b>  | - |  |  |  |
| <b>XBEC806</b> | 92.00         | 92.00         | -             | 92.00         | 92.00         | 92.00         | -             | 92.00         | 90.00         | 92.00         | - |  |  |  |
| <b>XBES806</b> | 93.04         | 93.04         | -             | 92.55         | 84.06         | 93.04         | -             | 93.04         | -             | 93.04         |   |  |  |  |
| <b>XBE807</b>  | <b>100.00</b> | <b>100.00</b> | <b>100.00</b> | <b>100.00</b> | <b>100.00</b> | <b>98.36</b>  | <b>100.00</b> | <b>100.00</b> | -             | -             |   |  |  |  |
| <b>XBEC808</b> | 100.00        | 100.00        | -             | 100.00        | 100.00        | 100.00        | -             | 100.00        | 100.00        | 100.00        | - |  |  |  |
| <b>XBES808</b> | 100.00        | 100.00        | -             | 100.00        | 100.00        | 100.00        | -             | 100.00        | -             | 100.00        | - |  |  |  |
| <b>XBE809C</b> | <b>98.20</b>  | <b>98.20</b>  | <b>98.50</b>  | <b>98.20</b>  | <b>97.75</b>  | <b>98.20</b>  | <b>97.75</b>  | <b>98.20</b>  | <b>98.20</b>  | <b>100.00</b> |   |  |  |  |
| <b>XBE810A</b> | 100.00        | -             | -             | 100.00        | 100.00        | 100.00        | -             | -             | 100.00        | 100.00        |   |  |  |  |
| <b>XBE810B</b> | <b>100.00</b> | <b>98.30</b>  | <b>100.00</b> | <b>100.00</b> | <b>100.00</b> | <b>100.00</b> | <b>97.26</b>  | <b>100.00</b> | -             | -             |   |  |  |  |
| <b>XBE810D</b> | -             | 99.00         | 99.13         | -             | 99.21         | -             | -             | 99.21         |               |               | - |  |  |  |
| <b>XBE810F</b> | 100.00        | 100.00        |               | 100.00        | 100.00        | 100.00        |               | 100.00        | -             | 100.00        | - |  |  |  |
|                | 97.66         | 97.47         | 99.41         | 97.64         | 97.11         | 97.55         | 97.99         | 97.62         | 97.04         | 97.48         |   |  |  |  |

# Department of Education Batch 2018-2022

## CO VS PO DIRECT ATTAINMET



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University)  
Established under Sec. 3 of CTE Act, 1959 & "NAAC" Approved  
think • innovate • transform

| SEM  | PO1   | PO2   | PO3   | PO4   | PO5   | PO6   | PO7   | PO8   | PO9   | PO10   |  |  |  |  |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--|--|--|--|
| I    | 80.25 | 78.68 | 83.73 | 82.21 | 80.16 | 76.77 | 80.77 | 77.92 | 83.78 | 81.21  |  |  |  |  |
| II   | 82.46 | 83.65 | 80.88 | 77.70 | 81.23 | 76.99 | 78.04 | 78.70 | 81.25 | 81.18  |  |  |  |  |
| III  | 83.71 | 79.67 | 82.60 | 83.94 | 83.46 | 82.02 | 87.15 | 84.27 | 83.69 | 85.35  |  |  |  |  |
| IV   | 82.66 | 76.82 | 78.55 | 80.66 | 79.75 | 75.44 | 78.69 | 76.82 | 81.65 | 81.49  |  |  |  |  |
| V    | 97.44 | 95.55 | 97.04 | 97.45 | 97.63 | 96.76 | 97.86 | 96.76 | 96.76 | 97.00  |  |  |  |  |
| VI   | 94.65 | 97.14 | 90.06 | 93.28 | 96.57 | 96.57 | 95.71 | 97.14 | 92.27 | 100.00 |  |  |  |  |
| VIII | 96.37 | 94.76 | 98.87 | 95.78 | 93.94 | 94.67 | 97.77 | 94.69 | 97.07 | 95.11  |  |  |  |  |
| VIII | 97.66 | 97.47 | 99.41 | 97.64 | 97.11 | 97.55 | 97.99 | 97.62 | 97.04 | 97.48  |  |  |  |  |

**Average**    89.40    87.97    88.89    88.58    88.73    87.10    89.25    87.99    89.19    89.85

# Department of Education REGULATION 2018-2022

## FINAL CO VS PO ATTAINMENT



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University)  
Established under Sec. 3 of UGC Act, 1956 - NAAC Accredited  
think • innovate • transform

| SEM  |         | PO1   | PO2   | PO3   | PO4   | PO5   | PO6   | PO7   | PO8   | PO9   | PO10   |
|------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| I    | Direct  | 80.25 | 78.68 | 83.73 | 82.21 | 80.16 | 76.77 | 80.77 | 77.92 | 83.78 | 81.21  |
|      | INDIREC | 88.40 | 88.20 | 88.68 | 89.54 | 88.31 | 87.85 | 88.33 | 88.18 | 88.68 | 88.94  |
|      | FINAL   | 81.47 | 80.11 | 84.47 | 83.31 | 81.38 | 78.43 | 81.90 | 79.46 | 84.52 | 82.37  |
| II   | Direct  | 82.46 | 83.65 | 80.88 | 77.70 | 81.23 | 76.99 | 78.04 | 78.70 | 81.25 | 81.18  |
|      | INDIREC | 88.05 | 88.28 | 88.39 | 87.82 | 88.30 | 88.49 | 88.58 | 88.40 | 88.02 | 87.60  |
|      | FINAL   | 83.30 | 84.34 | 82.01 | 79.21 | 82.29 | 78.72 | 79.62 | 80.16 | 82.27 | 82.14  |
| III  | Direct  | 83.71 | 79.67 | 82.60 | 83.94 | 83.46 | 82.02 | 87.15 | 84.27 | 83.69 | 85.35  |
|      | INDIREC | 89.25 | 88.35 | 89.02 | 89.41 | 89.74 | 90.68 | 91.01 | 91.63 | 91.25 | 89.12  |
|      | FINAL   | 84.54 | 80.97 | 83.56 | 84.76 | 84.40 | 83.32 | 87.73 | 85.37 | 84.83 | 85.91  |
| IV   | Direct  | 82.66 | 76.82 | 78.55 | 80.66 | 79.75 | 75.44 | 78.69 | 76.82 | 81.65 | 81.49  |
|      | INDIREC | 87.58 | 87.84 | 88.20 | 87.98 | 87.72 | 87.84 | 87.44 | 87.39 | 88.12 | 87.63  |
|      | FINAL   | 83.40 | 78.47 | 80.00 | 81.76 | 80.94 | 77.30 | 80.00 | 78.41 | 82.62 | 82.41  |
| V    | Direct  | 97.44 | 95.55 | 97.04 | 97.45 | 97.63 | 96.76 | 97.86 | 96.76 | 96.76 | 97.00  |
|      | INDIREC | 89.32 | 89.23 | 89.15 | 89.47 | 89.38 | 90.41 | 89.33 | 89.83 | 89.29 | 89.40  |
|      | FINAL   | 96.22 | 94.60 | 95.86 | 96.26 | 96.39 | 95.81 | 96.58 | 95.72 | 95.64 | 95.86  |
| VI   | Direct  | 94.65 | 97.14 | 90.06 | 93.28 | 96.57 | 96.57 | 95.71 | 97.14 | 92.27 | 100.00 |
|      | INDIREC | 89.54 | 89.79 | 89.53 | 89.60 | 89.64 | 89.49 | 89.49 | 89.66 | 89.68 | 89.77  |
|      | FINAL   | 93.88 | 96.04 | 89.98 | 92.73 | 95.53 | 95.51 | 94.78 | 96.02 | 91.88 | 98.47  |
| VII  | Direct  | 96.37 | 94.76 | 98.87 | 95.78 | 93.94 | 94.67 | 97.77 | 94.69 | 97.07 | 95.11  |
|      | INDIREC | 88.83 | 88.23 | 88.40 | 88.58 | 89.12 | 87.75 | 87.57 | 89.86 | 89.59 | 91.02  |
|      | FINAL   | 95.24 | 93.78 | 97.30 | 94.70 | 93.22 | 93.63 | 96.24 | 93.96 | 95.95 | 94.49  |
| VIII | Direct  | 97.66 | 97.47 | 99.41 | 97.64 | 97.11 | 97.55 | 97.99 | 97.62 | 97.04 | 97.48  |
|      | INDIREC | 86.36 | 86.27 | 87.26 | 87.60 | 86.21 | 86.91 | 88.19 | 88.82 | 87.45 | 87.76  |
|      | FINAL   | 95.97 | 95.79 | 97.59 | 96.13 | 95.48 | 95.96 | 96.52 | 96.30 | 95.60 | 96.02  |

Final Attainment of Sem I to VIII      89.25      88.01      88.85      88.61      88.70      87.33      89.17      88.17      89.16      89.71



Department of Education  
Batch 2018-2022  
INDIRECT ATTAINMENT



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Approved by the Council of Higher Education, Government of Tamil Nadu)  
(Established in 1973, Affiliated to Anna University, Chennai)  
(Rank - 1st among 1000+ institutions)

| COURSE CODE | COURSE CODE                                        | FEED BACK ON COURSE OUT OF 100 % | PO1   | PO2   | PO3   | PO4   | PO5   | PO6   | PO7   | PO8   | PO9   | PO10  |
|-------------|----------------------------------------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| XBE101      | Tamil - I                                          | 81                               | 3     | 1.6   | 2.6   | 2     | 1     | 2.4   | 1     | 1     | 1.4   | 1     |
| XBE102      | English - I                                        | 72                               | 1.6   | 2.4   | 1.2   | 1.6   | 1.8   | 1.8   | 1.2   | 2.2   | 1.2   | 1.6   |
| XBE103H     | Holistic Education                                 | 95                               | 3     | 1.5   | 1     | 1.5   | 1.25  | 1     | 1.25  | 2.5   | 0.75  | 1.5   |
| XBE104      | Introduction to Computers                          | 86                               | 3     | 1     | 1     | 1     | 1     | 0     | 0     | 0     | 0.5   | 0     |
| XBE105      | Understanding Education and its perspective        | 81                               | 3     | 2     | 2     | 2     | 2     | 0     | 0     | 1     | 2     | 0     |
| XBE106      | Differential Calculus and Trigonometry             | 90                               | 3     | 3     | 2     | 1     | 1     | 1     | 0     | 1     | 1     | 1     |
| XBE107      | Properties of Matter and Sound                     | 77                               | 3     | 2     | 2     | 2     | 2     | 0     | 0     | 0     | 2     | 0     |
| XBEC108     | General Chemistry - I                              | 86                               | 3     | 2     | 2     | 2     | 2     | 0     | 0     | 0     | 2     | 0     |
| XBES108     | Programming in C                                   | 72                               | 3     | 1     | 1     | 1     | 1     | 0     | 0     | 0     | 1     | 0     |
| XBE109      | Physics Practical - I                              | 95                               | 3     | 2     | 1     | 3     | 2     | 0     | 0     | 1     | 3     | 0     |
| XBEC110     | Volumetric Analysis Lab - I                        | 95                               | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 3     | 2     | 0     |
| XBES110     | Programming in C Lab                               | 96                               | 0     | 0     | 3     | 0     | 0     | 0     | 0     | 2     | 1     | 0     |
|             | Average                                            |                                  | 88.4  | 88.2  | 88.68 | 89.54 | 88.31 | 87.85 | 88.33 | 88.18 | 88.68 | 88.94 |
| XBE201      | Tamil - II                                         | 83                               | 3     | 2     | 1     | 0     | 2     | 2     | 1     | 1     | 1     | 1     |
| XBE202      | English - II                                       | 90                               | 3     | 3     | 2     | 0     | 2     | 1     | 1     | 3     | 2     | 1     |
| XBE203E     | Environmental Education                            | 79                               | 2     | 0     | 1     | 2     | 3     | 0     | 1     | 1     | 0     | 1     |
| XBE204      | Software Packages - Lab                            | 80                               | 0     | 0     | 3     | 3     | 0     | 0     | 0     | 2     | 1     | 0     |
| XBE205      | Educational Psychology - Understanding the Learner | 92                               | 1     | 0     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 2     |
| XBE206      | Algebra and Numerical Analysis                     | 89                               | 2     | 2     | 2     | 2     | 2     | 1     | 1     | 1     | 0     | 1     |
| XBE207      | Mechanics and Relativity                           | 93                               | 2     | 0     | 0     | 2     | 2     | 1     | 1     | 0     | 0     | 0     |
| XBES208     | Data Structures and Algorithms                     | 90                               | 0     | 3     | 3     | 3     | 2     | 0     | 0     | 0     | 1     | 0     |
| XBEC208     | General Chemistry - II                             | 93                               | 3     | 0     | 2     | 3     | 1     | 1     | 0     | 0     | 0     | 1     |
| XBE209      | Physics Practical - II                             | 90                               | 3     | 2     | 0     | 0     | 1     | 0     | 0     | 0     | 0     | 1     |
| XBEC210     | Volumetric Analysis Lab - II                       | 92                               | 1     | 1     | 1     | 0     | 0     | 0.3   | 0.67  | 0.67  | 0     | 2     |
| XBES210     | Data Structures using C Lab                        | 93                               | 3     | 3     | 2     | 0     | 1     | 0     | 1     | 0     | 1     | 0     |
|             | Average                                            |                                  | 88.05 | 88.28 | 88.39 | 87.82 | 88.3  | 88.49 | 88.58 | 88.4  | 88.02 | 87.6  |
| XBE301      | Tamil - III                                        | 83                               | 3     | 1     | 0     | 3     | 0     |       | 1     | 0     | 0     | 0     |
| XBE302      | English - III                                      | 76                               | 2.2   | 1     | 0     | 0     | 0     | 0.75  | 0.5   | 0     | 0.25  | 0     |
| XBE303      | Theatre, Art and Heritage Craft Traditions         | 82                               | 1.33  | 0     | 0     | 0     | 0     | 0     | 2     | 0.67  | 0.67  | 0.67  |
| XBEC304     | Programming in C (for MPC group Students)          | 75                               | 1     | 1.25  | 2     | 1     | 0.25  | 0.5   | 0.5   | 0.5   | 0.75  | 0.5   |
| XBES304     | Visual Programming (For CsMP group Students)       | 89                               | 1     | 1.25  | 1     | 1     | 1     | 0.5   | 0.5   | 0.5   | 0.75  | 0.5   |

|         |                                                             |    |       |       |       |       |       |       |       |       |       |       |
|---------|-------------------------------------------------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| XBE305  | Educational Psychology – Understanding the Learning Process | 76 | 0     | 3     | 2     | 1     | 1     | 1     | 2     | 1     | 0     | 1     |
| XBE306  | Analytical Geometry (3D) and Integral Calculus              | 75 | 3     | 0     | 0     | 2     | 2     | 0     | 1     | 0     | 0     | 1     |
| XBE307  | Heat and Thermo Dynamics                                    | 79 | 3     | 2     | 0     | 0     | 0     | 1     | 1     | 1     | 0     | 0     |
| XBEC308 | General Chemistry - III                                     | 88 | 3     | 0     | 2     | 3     | 0     | 0     | 0     | 0     | 2     | 0     |
| XBES308 | Object Oriented Programming with C++ and Java               | 87 | 3     | 1     | 1     | 0     | 1     | 0     | 0     | 0     | 2     | 0     |
| XBE309  | Physics Practical - III                                     | 83 | 3     | 1     | 2     | 2     | 2     | 2     | 1     | 1     | 0     | 0     |
| XBEC310 | Semimicro Inorganic Qualitative Analysis (ANIONS) Lab       | 82 | 3     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 2     | 2     |
| XBES310 | Programming in C++ and Java Lab                             | 84 | 2     | 0     | 0     | 1     | 1     | 0     | 0     | 0     | 1     | 1     |
| XBES311 | Practicum and School Internship - I                         | 93 | 0     | 0     | 3     | 3     | 0     | 0     | 0     | 2     | 1     | 0     |
|         | Average                                                     |    | 89.25 | 88.35 | 89.02 | 89.41 | 89.74 | 90.68 | 91.01 | 91.63 | 91.25 | 89.12 |
| XBE401  | Tamil - IV                                                  | 87 | 1     | 2     | 2     | 0     | 2     | 2     | 2     | 3     | 1     | 2     |
| XBE402  | English - IV                                                | 81 | 2     | 2     | 2     | 0     | 2     | 1     | 1     | 3     | 3     | 1     |
| XBE403  | Social Engineering                                          | 94 | 2     | 1     | 3     | 0     | 2     | 1     | 2     | 2     | 3     | 2     |
| XBE404  | Introduction to MATLAB                                      | 93 | 3     | 0     | 0     | 2     | 2     | 0     | 0     | 0     | 3     | 3     |
| XBE405  | Assessment of Learning                                      | 91 | 2     | 1     | 3     | 0     | 2     | 1     | 2     | 2     | 3     | 2     |
| XBE406  | Vector Calculus and Fourier Series.                         | 89 | 2     | 2     | 1     | 2     | 1     | 0.5   | 0.5   | 0.5   | 0.4   | 0.5   |
| XBE407  | Optics and Spectroscopy                                     | 95 | 2     | 2     | 1     | 2     | 1     | 0.5   | 0.5   | 0.5   | 0.4   | 0.5   |
| XBEC408 | General Chemistry - IV                                      | 94 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 2     |
| XBES408 | Computer Graphics                                           | 92 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 2     |
| XBE409  | Physics Practical - IV                                      | 96 | 3     | 1     | 2     | 2     | 2     | 2     | 1     | 1     | 0     | 0     |
| XBEC410 | Semimicro Inorganic Qualitative Analysis (CATIONS) Lab      | 92 | 3     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 2     | 2     |
| XBES410 | Computer Graphics Lab                                       | 91 | 3     | 0     | 0     | 2     | 0     | 0     | 0     | 0     | 3     | 3     |
| XBES411 | Practicum and School Internship-II                          | 95 | 0     | 0     | 0     | 3     | 0     | 0     | 0     | 2     | 1     | 0     |
|         | Average                                                     |    | 87.58 | 87.84 | 88.2  | 87.98 | 87.72 | 87.84 | 87.44 | 87.39 | 88.12 | 87.63 |
| XBE501  | Soft Skill Development and Peace Education                  | 86 | 0     | 0     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 3     |
| XBE502  | Basics of e – Learning Education                            | 81 | 0     | 0     | 3     | 3     | 3     | 3     | 2     | 2     | 2     | 3     |
| XBES03  | Teaching Approaches and Strategies                          | 94 | 0     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 3     |
| XBES04A | Pedagogy of Mathematics - I                                 | 93 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 3     |
| XBES04B | Pedagogy of Physics- I                                      | 91 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 3     |
| XBES04C | Pedagogy of Chemistry - I                                   | 89 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 3     |
| XBES04C | Pedagogy of Computer Science - I                            | 95 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 3     |
| XBE505  | Sequences and Series                                        | 94 | 3     | 0     | 0     | 2     | 2     | 0     | 1     | 0     | 0     | 1     |
| XBE506  | Electricity and Magnetism                                   | 92 | 3     | 0     | 0     | 2     | 2     | 0     | 1     | 0     | 0     | 1     |
| XBEC507 | Inorganic Chemistry - I                                     | 96 | 3     | 2     | 0     | 3     | 2     | 3     | 0     | 3     | 0     | 2     |
| XBES07  | Database Management Systems                                 | 92 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 2     |
| XBE508  | Physics Practical - V                                       | 91 | 3     | 1     | 2     | 2     | 2     | 2     | 1     | 1     | 0     | 0     |
| XBEC509 | Gravimetric Analysis Lab                                    | 95 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 2     | 1     | 2     |
| XBES09  | RDBMS Lab                                                   | 90 | 2     | 2     | 3     | 1     | 1     | 2     | 0     | 1     | 0     | 0     |
| XBES10  | Practicum and School Internship-III                         | 99 | 3     | 3     | 0     | 3     | 0     | 3     | 0     | 2     | 1     | 0     |
|         | Average                                                     |    | 89.32 | 89.23 | 89.15 | 89.47 | 89.38 | 90.41 | 89.33 | 89.83 | 89.29 | 89.4  |
| XBE601  | Indian Constitutions and Human Rights                       | 81 | 2     | 2.5   | 2.5   | 0.5   | 1     | 0.5   | 0.5   | 0.5   | 0.75  | 0.75  |
| XBE602  | Introduction to LATEX                                       | 94 | 3     | 2.7   | 2.3   | 0.7   | 0.3   | 1.7   | 0.3   | 0.3   | 0.3   | 1     |

|          |                                                                  |    |       |       |       |       |       |       |       |       |       |       |
|----------|------------------------------------------------------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| XBE603   | Secondary Education in India – Status, Challenges and Strategies | 93 | 0     | 3     | 3     | 0     | 3     | 0     | 3     | 3     | 0     | 3     |
| XBE604A  | Pedagogy of Mathematics – II                                     | 91 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 3     |
| XBE604B  | Pedagogy of Physics- II                                          | 89 | 3     | 0     | 2     | 3     | 0     | 0     | 0     | 0     | 2     | 0     |
| XBEC604C | Pedagogy of Chemistry - II                                       | 95 | 3     | 0     | 2     | 3     | 0     | 0     | 0     | 0     | 2     | 0     |
| XBES604C | Pedagogy of Computer Science - II                                | 94 | 3     | 0     | 2     | 3     | 0     | 0     | 0     | 0     | 2     | 0     |
| XBE605   | Differential Equations and Laplace Transforms                    | 92 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 3     |
| XBE606   | Atomic and Solid State Physics                                   | 96 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 2     |
| XBEC607  | Organic Chemistry - I                                            | 92 | 3     | 2     | 0     | 3     | 2     | 3     | 0     | 3     | 0     | 2     |
| XBES607  | Operating Systems                                                | 91 | 3     | 1     | 1     | 0     | 1     | 0     | 0     | 0     | 2     | 0     |
| XBE608   | Physics Practical - VI                                           | 95 | 3     | 1     | 2     | 2     | 2     | 2     | 1     | 1     | 0     | 0     |
| XBEC609  | Organic Qualitative Analysis and Organic Preparation Lab         | 90 | 3     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 2     | 2     |
| XBES609  | Operating Systems Lab                                            | 92 | 2     | 0     | 0     | 1     | 0     | 0     | 0     | 0     | 1     | 1     |
| XBE610   | Practicum and School Internship - IV                             | 99 | 0     | 0     | 3     | 0     | 0     | 0     | 0     | 3     | 3     | 0     |
|          | Average                                                          |    | 89.54 | 89.79 | 89.53 | 89.6  | 89.64 | 89.49 | 89.49 | 89.66 | 89.68 | 89.77 |
| XBE701   | Educational Innovation and Management                            | 93 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 3     |
| XBE702   | Algebra                                                          | 91 | 3     | 0     | 0     | 0     | 0     | 1     | 0     | 0     | 0     | 1     |
| XBE703   | Real Analysis                                                    | 89 | 3     | 2     | 0     | 1     | 0.7   | 0     | 1     | 1     | 0     | 0     |
| XBE704   | Basic Electronics                                                | 95 | 3     | 2     | 0     | 0     | 0     | 1     | 1     | 1     | 0     | 0     |
| XBE705   | Wave Mechanics and Nuclear Physics                               | 94 | 3     | 2     | 0     | 0     | 0     | 1     | 1     | 1     | 0     | 0     |
| XBEC706  | Physical Chemistry - I                                           | 92 | 3     | 2     | 0     | 3     | 2     | 3     | 0     | 3     | 0     | 2     |
| XBES706  | Computer Networks                                                | 96 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 2     |
| XBEC707  | Organic Chemistry - II                                           | 92 | 3     | 2     | 0     | 3     | 2     | 3     | 0     | 3     | 0     | 2     |
| XBES707  | Web Technology                                                   | 91 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 2     |
| XBE708   | Physics Practical - VII                                          | 95 | 3     | 1     | 2     | 2     | 2     | 2     | 1     | 1     | 0     | 0     |
| XBEC709  | Physical Chemistry Lab - I                                       | 90 | 2     | 2     | 2     | 1     | 1     | 1     | 1     | 0     | 0     | 0     |
| XBES709  | Web Technology Lab                                               | 92 | 2     | 0     | 0     | 1     | 0     | 0     | 0     | 0     | 1     | 1     |
| XBE710   | Practicum and School Internship - V                              | 99 | 0     | 0     | 3     | 0     | 0     | 0     | 0     | 3     | 3     | 0     |
|          | Average                                                          |    | 88.83 | 88.23 | 88.4  | 88.58 | 89.12 | 87.75 | 87.57 | 89.86 | 89.59 | 91.02 |
| XBE801   | Statistics and Operations Research                               | 89 | 3     | 0     | 0     | 0     | 0     | 1     | 0     | 0     | 0     | 1     |
| XBE802   | Complex Analysis                                                 | 95 | 3     | 0     | 0     | 0     | 0     | 1     | 0     | 0     | 0     | 1     |
| XBES803  | Digital Electronics                                              | 94 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 2     |
| XBE804   | Microprocessor and Microcontroller                               | 92 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 2     |
| XBEC805  | Physical Chemistry - II                                          | 96 | 3     | 2     | 0     | 3     | 2     | 3     | 0     | 3     | 0     | 2     |
| XBES805  | Software Engineering                                             | 92 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 2     |
| XBE806   | Analytical Chemistry                                             | 91 | 3     | 2     | 0     | 3     | 2     | 3     | 0     | 3     | 0     | 2     |
| XBES806  | Data mining                                                      | 95 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 2     |
| XBE807   | Physics Practical - VIII                                         | 90 | 2     | 2     | 2     | 1     | 1     | 2     | 1     | 1     | 0     | 0     |
| XBEC808  | Physical Chemistry Lab - II                                      | 92 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 2     | 1     | 2     |
| XBES808  | Software Development Lab (Mini Project)                          | 87 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 3     |
| XBE809C  | Guidance and Counseling in School                                | 96 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 3     |
| XBE810A  | Discrete Mathematics                                             | 91 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 3     |
| XBE810B  | Electrical Appliances and Renewable Energy Sources               | 98 | 3     | 2     | 0     | 3     | 3     | 3     | 0     | 3     | 2     | 3     |



|                |                         |    |       |       |       |      |       |       |       |       |       |       |
|----------------|-------------------------|----|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|
| <b>XBE810D</b> | Food Chemistry          | 99 | 3     | 2     | 0     | 3    | 2     | 3     | 0     | 3     | 0     | 2     |
| <b>XBE810F</b> | C # and . Net Framework | 93 | 3     | 2     | 0     | 3    | 2     | 3     | 0     | 3     | 0     | 2     |
|                | Average                 |    | 86.36 | 86.27 | 87.26 | 87.6 | 86.21 | 86.91 | 88.19 | 88.82 | 87.45 | 87.76 |

Department of Education  
REGULATION 2018-2022  
INDIRECT ATTAINMENT



**PERIYAR  
MANIAMMAI**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Established in the year 1986  
Recognized by the Government of Tamil Nadu  
Establishment Order No. 347-2002, dated 1986-1987  
think • innovate • transform

|  | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|

Exit Survey  
Attainment

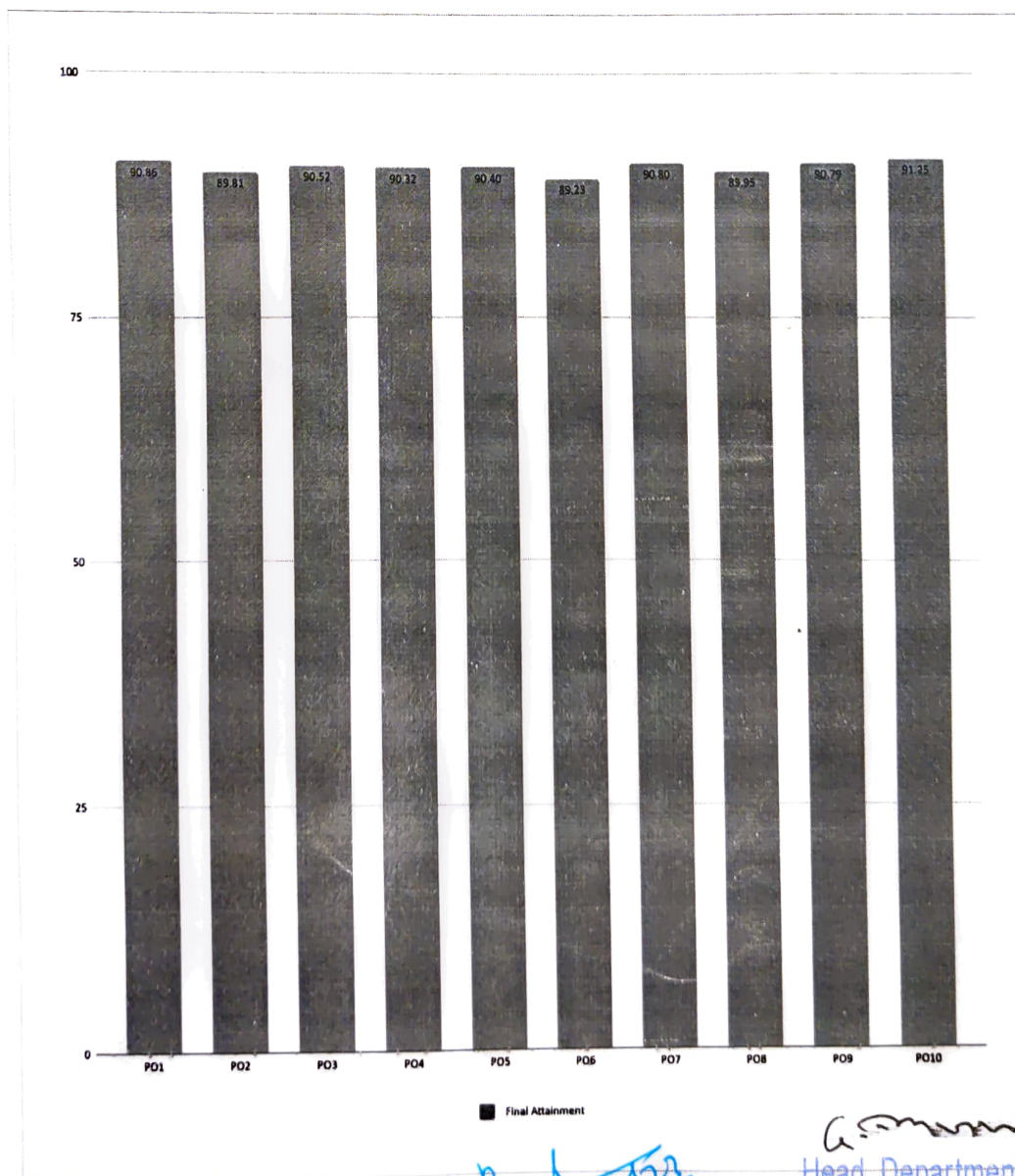
100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00

Direct  
and Indirect  
Attainment

89.25 88.01 88.85 88.61 88.70 87.33 89.17 88.17 89.16 89.71

Final

Attainment 90.86 89.81 90.52 90.32 90.40 89.23 90.80 89.95 90.79 91.25



Final Attainment

*R. Natarajan*  
[R. NATARAJAN A/IEdu]

*Punb 615723*

*G. Srinivasan*  
Head, Department of Education,  
Periyar Maniammai Institute of Science & Technology,  
Vallam, Thanjavur - 613 403.