



# **St. Joseph College of Teacher Education for Women Ernakulam**



## **CRITERION I**

**1.1.2 Curriculum Planning and Adoption at Institutional Level are a  
Collaborative Effort**

**Additional Information**

Submitted to  
**National Assessment and Accreditation Council (NAAC)**  
**3rd Cycle of Assessment**



**1.1.2 Additional Information Showing Curriculum Planning and Adoption at  
Institutional Level are a Collaborative Effort**

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# ST JOSEPH COLLEGE OF TEACHER EDUCATION FOR WOMEN

Kovilvattom Road, Ernakulam, Kochi, Pin – 682035, Kerala  
(Affiliated to Mahatma Gandhi University, Kottayam)

## Plan of Action for Curriculum Delivery 2022-2023

| Issues                                     | Decisions taken  | Action taken/Adopted  |
|--|--|---|
| <b>1. Systematic Curriculum Delivery:</b>  | 1. Preparing the Schedule for covering Syllabus              | Schedule of the Syllabus was prepared and submitted to the Principal on 25/05/2022. It was communicated to the faculty.   |
|  | 2. Preparation of Master time table and Class time table     | Master Time table was prepared and submitted on 27/05/2022.   |
|  | 3. Preparing Academic Calendar                               | Academic Calendar was prepared and submitted to the Principal on 14/06/2022. It was made available in the website and the college hand book.  |
|  | 4. Preparing workload of faculty                             | Work load of teachers was prepared and submitted on 15/06/2022  |
|  | 5. Preparing Course Plan by the faculty                      | Course plans were prepared by the Faculty   |
| <b>2. Effective Delivery of Curriculum</b> | 1. Using Diverse modes of Pedagogy for delivering curriculum | The following Diverse modes of Pedagogy were used for transacting the curriculum – Lecturing, ICT integrated, Group discussion, Cooperative Learning Strategies, Peer tutoring, Seminars, Workshops, Blended learning strategies, Guest Lectures, Interaction with resource Persons |
|  | 2. Providing training in Self-Regulated modes                | Provision for Library referencing, self-study hours was made in the time table and student teachers were guided for the same.<br><br>Assignments, Seminars and Projects were given which required the student teacher and teacher Educands to work on their own.                    |



*Alice Joseph*

Dr. Alice Joseph  
Principal in Charge  
St. Joseph College of Teacher  
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|                                    |   |  |
|------------------------------------|---|--|
|                                    | 3. Providing Hands on training for developing Teaching, Research Social and Life skills | Hands on training Experience like– Camp (from 20/06/2022 to 24/06/2022) Field Trip (10/11/2022), One month School Induction Programme (11/07/2022 to 11/08/2022 and from 8/02/2023 to 03/03/2023) and School Internships (from 19/10/2022 to 03/02/2023), Outreach programme (12/08/2022, 14/09/2022 19/12/2022, 21/12/2022) Extension Services (16/12/2022) Projects, Case Study were organized and conducted |
|                                    | 4. Scheduling the Submission of Assignments and Practical                               | Dates were scheduled in the academic calendar for submission of Assignments and Practical to prevent overcrowding of submission and burden of the student teachers   |
| <b>3. Enriching the curriculum</b> | 1. Value Added courses and Self Study Courses   | Student teachers were encouraged to take up Value Added Courses and undergo Self-study course of their choice. This year 11 Value Added Courses were provided.   |
|                                    | 2. Familiarizing Student teachers with diversities in school Curriculum                 | Interaction with Faculty from Schools following CBSE, ICSE, State Syllabus and from abroad were organized on 29/05/ 2022, 01/07/2022, 07/07/2022, 03/08/2022.  |
|                                    | 3. Organizing Conference, Seminars, Workshops Student Capacity Enhancement Programmes   | Conference, Seminars, Workshops Student Capacity Enhancement Programmes (03/08/2022., 09/08/2022, 3/03/2023,   |
|                                    | 4. Organizing Co-Curricular Activities  | Around 43 co-curricular activities were organized this year  |



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|--|--|---|
| <b>4. Evaluating the curriculum Delivery</b> | 1. Continuous and Transparent Assessment         | Assessment of Learning-the learning outcome was measured and assessed in a continuous and comprehensive way by daily Questioning in class, conduct of Test Papers, Internal assessments and University Exam |
|  | 2. Publication of results of Internal Assessment | Internal Assessment marks were published as scheduled   |
|  | 3. Feedback regarding the delivery of curriculum | The feedback regarding curriculum transaction was sought from Student teachers, Parents, Heads and teachers of the Practice teaching schools.   |
|  | 4. Analysis of the Feed Back                     | The feedback was analyzed and the modifications required was communicated to the Concerned Bodies   |

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## SCHEDULE OF THE SYLLABUS

### List of Courses and Faculty B.Ed (2022-2023)

| Sl.No | Course Code | Course Title   | Faculty                         |
|-------|-------------|--|---------------------------------|
| 1     | EDU 101     | Contemporary India and Education                     | Dr Smitha Jose                  |
| 2     | EDU 102     | Childhood and Growing up                             | Dr Soya Mathew                  |
| 3     | EDU 103     | Development and Resources in Educational Technology. | Ms. Anu Cletus                  |
| 4     | EDU 104.11  | Understanding the Discipline of English              | Dr Alice Joseph & Dr Marin Jose |
| 5     | EDU 104.12  | Understanding the Discipline of Malayalam            | Dr Bindhu Joseph                |
| 6     | EDU 104.16  | Understanding the Discipline of Mathematics          | Dr Betty P J                    |
| 7     | EDU 104.17  | Understanding the Discipline of Physical Science     | Dr Josephine Joseph             |
| 8     | EDU 104.18  | Understanding the Discipline of Natural Science      | Dr Dinimol Jacob                |
| 9     | EDU 104.19  | Understanding the Discipline of Social Science       | Dr Siji John                    |
| 10    | EDU 105.11  | Learning to function as English teacher              | Dr Alice Joseph & Dr Marin Jose |
| 11    | EDU 105.12  | Learning to function as Malayalam teacher            | Dr Sicily A A                   |
| 12    | EDU 105.16  | Learning to function as Mathematics teacher          | Dr Joby Joy Kurian              |
| 13    | EDU 105.17  | Learning to function as Physical Scienceteacher      | Rosy Tintu M P                  |

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|    |            |  |   |
|----|------------|--|---|
| 14 | EDU 105.18 | Learning to function as Natural Scienceteacher | Dr Rachel George                            |
| 15 | EDU 105.19 | Learning to function as Social Science teacher | Dr Siji John                                |
| 16 | EDU 106.11 | Health and Physical Education                  | Dr Ceby George                              |
| 17 | EDU 106.12 | Guidance and Counselling                       | Dr Smitha Jose, Dr SoyaMathew               |
| 18 | EDU 106.14 | Environmental Education                        | Rosy Tintu M P , Anu Cleetus                |
| 19 | EDU 107.1  | Core Practical Course                          | Dr Smitha Jose, Dr SoyaMathew & Anu Cleetus |
| 20 | EDU 107.2  | Pedagogic Practical Course                     | Optional Teachers                           |
| 21 | EDU 107.3  | Health & Physical Education Practical Course   | Dr Ceby George                              |
| 22 | EDU 107.4  | Drama & Art in Education Practical Course      | Anu Cleetus                                 |
| 23 | EDU 201    | Knowledge and Curriculum                       | Dr Smitha Jose                              |
| 24 | EDU 202    | Learning and Teaching                          | Dr Soya Mathew                              |
| 25 | EDU 203    | Assessment for Learning                        | Ms. Anu Cleetus                             |
| 26 | EDU 204.11 | Pedagogical Dimensions of English              | Dr Alice Joseph & Dr Marin Jose             |
| 27 | EDU 204.12 | Pedagogical Dimensions of Malayalam            | Dr Sicily A A                               |
| 28 | EDU 204.16 | Pedagogical Dimensions of Mathematics          | Dr Joby Joy Kurian                          |
| 29 | EDU 204.17 | Pedagogical Dimensions of Physical Science     | Rosy Tintu M P                              |
| 30 | EDU 204.18 | Pedagogical Dimensions of Natural Science      | Dr Rachel George                            |





|    |            |   |   |
|----|------------|---|---|
| 31 | EDU 204.19 | Pedagogical Dimensions of Social Science                          | Dr Siji John                                  |
| 32 | EDU 205.11 | Curriculum and Resource Development in English Education          | Dr Marin Jose                                 |
| 33 | EDU 205.12 | Curriculum and Resource Development in Malayalam Education        | Dr Bindhu Joseph                              |
| 34 | EDU 205.16 | Curriculum and Resource Development in Mathematics Education      | Dr Betty P J                                  |
| 35 | EDU 205.17 | Curriculum and Resource Development in Physical Science Education | Dr Josephine Joseph                           |
| 36 | EDU 205.18 | Curriculum and Resource Development in Natural Science Education  | Dr Dinimol Jacob                              |
| 37 | EDU 205.19 | Curriculum and Resource Development in Social Science Education   | Dr Siji John                                  |
| 38 | EDU 206.1  | Core Practical Course   | Dr Smitha Jose & Dr Soya Mathew , Anu Cleetus |
| 39 | EDU 206.2  | Pedagogic Practical Course  | Optional Teachers                             |
| 40 | EDU 206.3  | Health & Physical Education Practical Course                      | Dr Ceby George                                |
| 41 | EDU 206.4  | Drama & Art in Education Practical Course                         | Anu Cleetus                                   |
| 42 | EDU301     | Language Across the Curriculum                                    | Dr Marin Jose                                 |
| 43 | EDU 302.1  | Engagement with the field. Core Practical                         | Dr Smitha Jose & Dr Soya Mathew               |
| 44 | EDU 302.2  | Engagement with the field. Pedagogical Practical                  | Optional Teachers                             |
| 45 | EDU 302.3  | Engagement with the field. Health and Physical Education          | Dr Ceby George                                |







|    |            | Practical  |   |
|----|------------|--|---|
| 46 | EDU 302.4  | Engagement with the field.<br>Drama and Art Practical      | Optional Teachers                       |
| 47 | EDU401     | Gender, School and Society                                 | Dr Smitha Jose                          |
| 48 | EDU402     | Personality Dynamics in<br>Education                       | Dr Soya Mathew                          |
| 49 | EDU 403.11 | Professional Development of an<br>English teacher          | Dr Alice Joseph & Dr<br>Marin Jose      |
| 50 | EDU 403.12 | Professional Development of an<br>Malayalam teacher        | Dr Bindhu Joseph                        |
| 51 | EDU 403.16 | Professional Development of an<br>Mathematics teacher      | Dr Betty P J &<br>Dr Joby Joy Kurian    |
| 52 | EDU 403.17 | Professional Development of an<br>Physical Science teacher | Dr Josephine Joseph &<br>Rosy Tintu M P |
| 53 | EDU 403.18 | Professional Development of an<br>Natural Science teacher  | Dr Dinimol Jacob & Dr<br>Rachel George  |
| 54 | EDU 403.19 | Professional Development of an<br>Social Science teacher   | Dr Siji John                            |
| 55 | EDU404.1   | Core Practical Course                                      | Dr Smitha Jose & Dr<br>Soya Mathew      |
| 56 | EDU404.2   | Pedagogic Practical Course                                 | Optional Teachers                       |
| 57 | EDU404.3   | Health & Physical Education<br>Practical Course            | Dr Ceby George                          |
| 58 | EDU404.4   | Drama & Art in Education<br>Practical Course               | Anu Cleetus                             |
| 59 | EDU404.5   | Communicative English                                      | Dr Marin Jose                           |

Optional Teachers :

Dr Alice Joseph & Dr Marin Jose, Dr Bindhu Joseph, Dr Betty P J, Dr Josephine Joseph, Dr Dinimol Jacob, Dr Siji John, Dr Sicily A A, Dr Joby Joy Kurian, Rosy Tintu M P, Dr Rachel Georg





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## Time table of B.Ed Semester I and Semester III (2022-2023)

| Days | 9.10-9.55                                | 9.55 – 10.40                            | 10.50-11.35                             | 11.35-12.20                             | 12.20-1.00                            | 1.00-1.45                               | 1.45 -2.30                                 | 2.30 -3.15                                  | 3.15 – 4.00             |
|------|--|---|---|---|---------------------------------------|---|--|---|-------------------------|
| Mon  | EDU101<br>S J                            | EDU 102<br>S M                          | EDU103<br>A C                           | Lib-B<br>ICT-A                          | Break                                 | EDU 104<br>BJ, BPJ, JJ,<br>M J, DJ, SiJ | EDU 105<br>AJ, SA, JK,<br>RT, RG, SiJ      | EDU 107.1<br>S J                            | Lib/ M -A<br>S.S /M - B |
|      | EUU 302.2<br>MJ, BJ, BPJ,<br>JJ, DJ, SiJ | EDU MJ, BJ,<br>BPJ, JJ, DJ,<br>SJ 302.2 | EDU 302.2<br>AJ, SA, JK,<br>RT, RG, SiJ | EDU 302.2<br>AJ, SA, JK,<br>RT, RG, SiJ |                                       | EDU302.1<br>S J/S M                     | EDU 301<br>AC                              | EDU302.3<br>C G                             | C A/Games               |
| Tue  | EDU 104<br>MJ, BJ, BPJ,<br>JJ, DJ, SiJ   | EDU 105<br>AJ, SA, JK,<br>RT, RG, SiJ   | EDU 106<br>SJ ,RT, CG                   | EDU101<br>S J                           |                                       | EDU 102<br>SM                           | EDU103<br>AC                               | EDU107.1<br>S M                             | C A/Games               |
|      | EDU301<br>AC                             | EDU302.1<br>S M                         | EDU302.4<br>AC                          | EDU 302.2<br>MJ, SA, JK,<br>RT, RG, SiJ |                                       | EDU302.2<br>MJ, SA, JK,<br>RT, RG, SiJ  | EDU302.2<br>MJ, BJ,<br>BPJ, JJ, DJ,<br>SiJ | EDU 302.2<br>MJ, BJ,<br>BPJ, JJ, DJ,<br>SiJ | S S/ M- A<br>Lib/M - B  |
|      | EDU 102<br>S M                           | EDU103<br>AC                            | EDU 101<br>S J                          | Lib- A<br>ICT- B                        | EDU 104<br>AJ, SA, JK,<br>RT, RG, SiJ | EDU 106<br>C G, SM,<br>AC,              | EDU 107.3<br>CG                            | Value Added<br>Course                       |                         |





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|     |  |   |   |   |  |  |  |   |                         |
|-----|--|---|---|---|--|--|--|---|-------------------------|
| Wed | EDU301<br>AC                             | EDU302.2<br>MJ, BJ, BPJ,<br>JJ, DJ, SiJ | EDU302.2<br>MJ, BJ, BPJ,<br>JJ, DJ, SiJ | EDU 302.3<br>CG                         |  | EDU 302.3<br>CG                        | EDU302.1<br>S J                        | EDU 302.1<br>S M                        | Value Added<br>course   |
| Wed |  |   |   |   |  |  |  |   |                         |
| Thu | EDU 103<br>A C                           | EDU 101<br>S J                          | EDU102<br>SM                            | EDU106<br>C G, SJ ,AC,                  |  | EDU 104<br>MJ, BJ, BPJ,<br>JJ, DJ, SiJ | EDU105<br>AJ, SA, JK,<br>RT, RG, SiJ   | EDU107.4<br>A C                         | L/ M- B<br>SS/ M- A     |
|     | EDU 302.2<br>MJ, BJ, BPJ,<br>JJ, DJ, SiJ | EDU302.2<br>MJ, BJ, BPJ,<br>JJ, DJ, SiJ | EDU 302.2<br>AJ, SA, JK,<br>RT, RG, SiJ | EDU 302.2<br>AJ, SA, JK,<br>RT, RG, SiJ |  | EDU 302.1<br>S J                       | EDU302.4<br>A C                        | EDU 302.3<br>CG                         | C A/ Games              |
| Fri | EDU 101<br>S J                           | EDU 102<br>S M                          | EDU 106<br>SM ,RT, CG                   | Lib-B<br>ICT-A                          |  | EDU 104<br>MJ, BJ, BPJ,<br>JJ, DJ, SiJ | Lib- A<br>ICT- B                       | EDU 107.2<br>AJ, SA, JK,<br>RT, RG, SiJ | Value Added<br>Course   |
|     | EDU 301<br>A C                           | EDU302.1<br>SM                          | EDU302.2<br>MJ, BJ, BPJ,<br>JJ, DJ, SiJ | EDU302.2<br>MJ, BJ, BPJ,<br>JJ, DJ, SiJ |  | EDU 302.2<br>MJ, SA, JK,<br>RT, RG, SJ | EDU302.2<br>MJ, SA, JK,<br>RT, RG, SiJ | EDU 302.3<br>CG                         | SS/ M – B<br>Lib/ M – A |

S J – Smitha Jose, S M – Soya Mathew, A C- Anu Cleetus, A J – Alice Joseph, M J – Marin Jose, B P J – Betty P J, J K – Joby Joy Kurian, J – Josephine Joseph, R T – Rosy Tintu M P, R G- Rachel George, D J- Dini mol Jacob, Si J – Siji John, C G – Ceby George.





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**Time table of B.Ed Semester II and Semester IV (2022-2023)**

| Days | 9.10-9.55                                 | 9.55 – 10.40                               | 10.50-11.35                                | 11.35-12.20                               | 12.20-1.00 | 1.00-1.45                                  | 1.45 -2.30                               | 2.30 -3.15                        | 3.15 – 4.00              |
|------|---|--|--|---|------------|--|--|-----------------------------------|--------------------------|
| Mon  | EDU201<br>S.J                             | EDU202<br>S.M                              | EDU203<br>AC                               | Lib-B<br>ICT-A                            | Break      | EDU204<br>MJ, SA, JK,<br>RT, RG, Si J      | EDU 205<br>AJ, BiJ, BJ,<br>JJ, DJ , Si J | EDU206.1<br>SJ                    | Lib/ M -A<br>S.S /M - B  |
|      | EUU 403<br>AJ, Bi J, BJ,<br>R T, DJ, SiJ, | EDU 403<br>MJ, Bi J, BJ, ,<br>RT, DJ, SiJ, | EDU 404.2<br>MJ, Bi J, JK,<br>JJ, DJ, SiJ, | EDU 401<br>S J .                          |            | EDU 404.2<br>AJ, Bi J, JK, JJ,<br>RG, SiJ, | EDU402<br>S M                            | EDU 404.5<br>M J                  | C A/Games<br>C G         |
| Tue  | EDU204<br>MJ, SA, JK,<br>R T, RG, Si J    | EDU 205<br>AJ, BiJ, BJ,<br>JJ, DJ , Si J   | EDU201<br>S J                              | EDU 202<br>SM                             | Break      | EDU 206.3<br>CG                            | EDU203<br>AC                             | EDU206.1<br>SM                    | C A/Games<br>CG          |
|      | EDU401<br>S J                             | EDU402<br>S M                              | EDU404.1<br>S M                            | EDU 403<br>AJ, Bi J, B J,<br>J J, RG, SiJ |            | EDU404.2<br>AJ, Bi J, B J, J J,<br>RG, SiJ | EDU404.3<br>CG                           | EDU 404.5<br>MJ                   | S S/ M- A<br>Lib/M - B   |
|      | EDU 202<br>SM                             | EDU203<br>A C                              | EDU 201<br>S J                             | Lib-A<br>ICT-B                            |            | EDU 205<br>AJ, BiJ, BJ, JJ,<br>DJ , Si J   | EDU 206.2<br>Optional<br>teachers        | EDU 206.2<br>Optional<br>teachers | Value<br>Added<br>Course |





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|     |   |  |  |   |  |  |   |                                   |                          |
|-----|---|--|--|---|--|--|---|-----------------------------------|--------------------------|
| Wed | EDU403<br>AJ, Bi J, B J,<br>J J, RG, SiJ  | EDU403<br>MJ, Bi J, BJ, ,<br>RT, DJ, SiJ | EDU404.2<br>MJ, Bi J, JK,<br>JJ, DJ, SiJ,  | EDU 402<br>SM                           |  | EDU 401<br>SJ                              | EDU404.1<br>SM                          | EDU 404.5<br>MJ                   | Value<br>Added<br>course |
|     |   |  |  |   |  |  |   |                                   |                          |
| Thu | EDU 203<br>AC                             | EDU 201<br>SJ                            | EDU202<br>SM                               | EDU206.2<br>Optional<br>Teachers        |  | EDU 204<br>A.J,S.A, JK,RT,<br>RG, SiJ      | EDU205<br>AJ, BiJ, BJ,<br>JJ, DJ , Si J | EDU206.4<br>AC                    | L/ M- B<br>SS/ M- A      |
|     | EDU 403<br>AJ, Bi J, BJ,<br>R T, DJ, SiJ, | EDU403<br>MJ, Bi J, JK,<br>JJ, DJ, SiJ,  | EDU 404.2<br>MJ, Bi J, JK,<br>JJ, DJ, SiJ, | EDU 404.3<br>CG                         |  | EDU 404.5<br>MJ                            | EDU401<br>SJ                            | EDU 402<br>SM                     | C A/ Games<br>CG         |
|     |   |  |  |   |  |  |   |                                   |                          |
| Fri | EDU 201<br>SJ                             | EDU 202<br>SM                            | EDU 206.1<br>AC                            | Lib-B ICT A                             |  | EDU 204<br>A.J,S.A, JK,RT,<br>RG, SiJ      | Lib-A<br>ICT-B                          | EDU 206.2<br>Optional<br>Teachers | C A/Games<br>CG          |
|     | EDU 402<br>SM                             | EDU401<br>SJ                             | EDU404.1<br>SJ                             | EDU403<br>AJ,Bi J,<br>JK,RT, RG,<br>SiJ |  | EDU 404.2<br>MJ, Bi J, JK, JJ,<br>DJ, SiJ, | EDU404.4<br>Optional<br>teachers        | EDU 404.5<br>MJ                   | SS/ M – B<br>Lib/ M – A  |

S J – Smitha Jose, S M – Soya Mathew, A C- Anu Cleetus, A J – Alice Joseph, M J – Marin Jose, B P J – Betty P J, J K – Joby Joy Kurian, J J – Josephine Joseph , R T – Rosy Tintu M P, R G- Rachel George, D J- Dini mol Jacob, S J – Siji John , C G – Ceby George.





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**Course Plan**

**Name of the Faculty** : Dr Betty P J  
**Name of the Programme** : B.Ed (2022-2024 batch)  
**Semester** : I  
**Course Code/ Title** : EDU104.16 Understanding the Discipline of Mathematics Education  
**Duration** : 31/08/2022 to 19/01/2023

| Sl. No | Modules  | Strategies Adopted for Content Transaction                                    | Duration                       | Remarks                   |
|--------|--|---|--------------------------------|---------------------------|
| 1.     | <b>Module 2 - Conceptual Background of Mathematics (10 Hrs)</b>                                      |   | <b>17/10/2022 – 31/10/2022</b> | Completed as per schedule |
|        | 2.1 Nature of Mathematics - Meaning and Characteristics  | participative , focus group discussion, Questioning                           | 2 Hours                        |                           |
|        | 2.2. Language and Symbols of Mathematics   | brain storming, focus group discussion, online mode, Document analysis        | 3 Hours                        |                           |
|        | 2.3 Paradigm shift in nature -Pure and applied -Empirical to rational -Induction, Intuition, logical | Discussion, Library work, brain storming, focus group discussion, online mode | 2 Hours                        |                           |
|        | 2.4 Scope of mathematics in the 21st century   | Assignment, Discussion, Value integrated method, online mode                  | 2 Hours                        |                           |
|        |  | <b>Questioning, test paper</b>  | <b>1 Hour</b>                  |                           |
|        | <b>Module 1 - Historical Background of Mathematics(10 Hrs)</b>                                       |   | <b>31/8/2022 – 23/9/2022</b>   |                           |



|    |   |   |                                 |                           |
|----|---|---|---------------------------------|---------------------------|
| 2. | 1.1 - Contribution of Mathematicians - Indian and western- Aryabhata, Bhaskaracharya, Brahmagupta, Ramanujan, Pythagorus, Rene Descarte, , Euclid | Seminars , role play focus group discussion, online mode      | 5 Hours                         | Completed as per schedule |
|    | 1.2 New Math movement   | Lecture Method,   | 2 Hours                         |                           |
|    | 1.3 Relevance of learning History of mathematics  | participative   | 2 Hours                         |                           |
|    |   | <b>Oral test</b>  | <b>1 Hour</b>                   |                           |
| 3. | <b>Module 3 - Inter and Intra disciplinary nature of Mathematics Education (10 hours)</b>   |   | <b>1/11/2022 to 14/11/2022</b>  | Completed as per schedule |
|    | 3.1 Correlation with Life   | Group Discussion, Questioning, participative , brain storming | 3 Hours                         |                           |
|    | 3.2 Correlation with different subjects-Science, Social sciences, I C T, Languages, Arts, Music,  | Questioning, Group Discussion , Experiential learning         | 3 Hours                         |                           |
|    | 3.3 Correlation with Different branches and topics  | Questioning, Group Discussion                                 | 3 Hours                         |                           |
|    |   | <b>Oral and Written Test</b>                                  | <b>1 Hour</b>                   |                           |
| 4  | <b>Module 4- Aims and values of Teaching mathematics(15 hours)</b>  |   | <b>15/11/2022 to 30/11/2022</b> | Completed as per schedule |
|    | 4.1 Aims and Values- Utilitarian, Disciplinary, Cultural, Vocational, Aesthetic   | Lecturing, Brainstorming participative , problem solving      | 7 Hours                         |                           |
|    | 4.2 General Objectives of teaching mathematics at different stages- Primary, Secondary, Higher secondary  | Questioning, brain storming                                   | 7 Hours                         |                           |
|    |   | <b>Questioning and Test Paper</b>                             | <b>1 Hour</b>                   |                           |



|   |   |  |                                |                           |
|---|---|--|--------------------------------|---------------------------|
| 5 | <b>Module 5 - Educational Objectives(15 Hrs)</b>  |  | <b>1/12/2022 to 23/12/2022</b> | Completed as per schedule |
|   | 5.1 Aims and objectives-meaning and distinction   | Lecturing, focus group discussion, online mode                                 | 3 Hours                        |                           |
|   | 5.2 Blooms Taxonomy of Educational objectives. revised Bloom's taxonomy conceptual overview.  | Lecturing, Experiential learning, participative , problem solving, online mode | 3 Hours                        |                           |
|   | 5.3 Objective Based Instruction and Objective based evaluation – based on Bloom's Taxonomy (cognitive, affective, psychomotor domain) | Group Discussion, brain storming, , online mode                                | 3 Hours                        |                           |
|   | 5.4 Competence Based Instruction and Competence based evaluation  | brain storming, focus group discussion, online mode                            | 3 Hours                        |                           |
|   | 5.5 Tri polar relation - Objective, Learning experience, Evaluation - Competence, Learning Activity, Evaluation                       | Lecturing, focus group discussion, online mode                                 | 3 Hours                        |                           |

Betty P.J.

Dr. BETTY.P.J.  
Associate Professor.



Alice Joseph  
Dr. Alice Joseph  
Principal in Charge  
St. Joseph College of Teacher  
Education for Women,  
Ernakulam







**St Joseph College of Teacher Education for Women, Ernakulam**

**Course Plan**

**Name of the Faculty** : Smitha Jose  
**Name of the Programme** : B.Ed  
**Semester** : I  
**Course Code/ Title** : EDU 101: CONTEMPORARY INDIA AND EDUCATION  
**Duration** : 31/08/2022 to 19/01/2023

| Sl. No | Modules  | Strategies Adopted for Content Transaction                  | Duration          | Remarks                         |
|--------|--|---|-------------------|---------------------------------|
| 1      | <b>Module 1 – Education</b>  | <b>31/8/2022 to 4/10/2022</b>                               | <b>(30 hours)</b> |                                 |
| 1.1    | Indian and Western Concept of Education - Aims - Functions of Education in Individual, Social, National, and global levels   | Lecture cum discussion<br>Experiential learning             | 4                 | Completed<br>As per<br>Schedule |
| 1.2    | Educational heritage of India with special reference to Vedic, Buddhist and Medieval periods-Significance of Upanishad in maintaining world peace and sustainable development – Educational Implications of Bhagavad Gita. | Lecture cum discussion<br>Debates<br>Participative learning | 6                 |                                 |
| 1.3    | Western system of education in India with special reference to Macaulay's Minutes and Wood's Despatch  | Lecture cum discussion                                      | 2                 |                                 |
| 1.4    | Elementary education system in India   | Brainstorming<br>Participative learning                     | 6                 |                                 |
| 1.5    | Types of Education–Formal, informal, and non-formal  | Lecture cum discussion<br>Experiential Learning             | 4                 |                                 |
| 1.6    | Education as Investment – Human Resource Development   | Lecture cum discussion<br>Participative learning            | 5                 |                                 |
| 1.7    | Education as a discipline – Its correlation with other disciplines–<br>History,  | Lecture cum discussion                                      | 5                 |                                 |



|     |  |  |                   |                           |
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|     | Philosophy, Psychology, Sociology and Science  | Experiential Learning                                  |                   |                           |
| 2.  | <b>Module 2 – Indian Constitution and Education</b>                                      | <b>5/10/2022 to 14/10/2022</b>                         | <b>(10 hours)</b> |                           |
| 2.1 | Indian Constitution – Preamble- Fundamental Rights and Directive principles              | Brainstorming sessions, Lecture cum discussion         | 3                 | Completed as per Schedule |
| 2.2 | Duties of citizens   | Peer tutoring  | 1                 |                           |
| 2.3 | Universalisation of Elementary Education-Right to Education Act 2009.                    | Lecture cum discussion<br>Experiential Learning        | 6                 |                           |
| 3.  | <b>Module 3 – Features and Issues of Indian Society</b>                                  | <b>17/10/2022 to 11/11/2022</b>                        | <b>(30 hours)</b> |                           |
| 3.1 | Multiculturalism-Unity in diversity  | Brainstorming sessions, Lecture cum discussion         | 5                 | Completed as per Schedule |
| 3.2 | Inequality and marginalization   | Assignments<br>Peer tutoring<br>Participative learning | 5                 |                           |
| 3.3 | Impact of Liberalisation, Privatisation and Globalisation on Indian Society              | Lecture cum discussion                                 | 6                 |                           |
| 3.4 | Educational Problems of Contemporary India-wastage and stagnation, Educated unemployment | Assignments<br>Peer tutoring                           | 8                 |                           |
| 3.5 | Population Education and Inclusive Education   | Assignments<br>Peer tutoring<br>Participative learning | 6                 |                           |
| 4   | <b>Module 4 -Education Commissions in India</b>  | <b>14/11/2022 to 25/11/2022</b>                        | <b>(10 hrs)</b>   |                           |
| 4.1 | Radhakrishnan Commission (1949)  | Lecture cum discussion<br>Participative learning       | 1.5               | Completed as per Schedule |
| 4.2 | Mudaliyar Commission (1953)  | Lecture cum discussion<br>Participative learning       | 1.5               |                           |
| 4.3 | Kothari Commission (1966)  | Lecture cum discussion                                 | 2                 |                           |



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|          |  | Participative learning                              |                   |                                  |
| 4.4      | National Policy on Education (1986&1992)   | Lecture cum discussion<br>Participative learning    | 2                 |                                  |
| 4.5      | National Curriculum Framework for Secondary Education (NCFSE) 2005   | Lecture cum discussion                              | 1.5               |                                  |
| 4.6      | National Curriculum Framework for Teacher Education (NCFTE) 2009   | Lecture cum discussion                              | 1.5               |                                  |
| <b>5</b> | <b>Module 5 – Recent Trends/Initiatives in Indian Education</b>  | <b>28/11/2022 to 23/12/2022</b>                     | <b>(20 hours)</b> |                                  |
| 5.1      | District Primary Education Programme (DPEP)  | Assignments<br>Peer tutoring                        | 1                 | <b>Completed as per schedule</b> |
| 5.2      | Sarva Shiksha Abhiyan (SSA)  | Assignments<br>Peer tutoring                        | 1                 |                                  |
| 5.3      | Rashtriya Madhyamic Shiksha Abhiyan (RMSA)   | Assignments<br>Peer tutoring                        | 1                 |                                  |
| 5.4      | Rashtriya Uchathar Shiksha Abhiyan(RUSA)   | Assignments<br>Group presentations                  | 1                 |                                  |
| 5.5      | Role of various organisations/Agencies in Education - UGC, NCTE, NCERT, SCERT, NUEPA, NAAC, DIET, General Awareness on KER and KSR | Assignments<br>Group presentations<br>Peer tutoring | 10                |                                  |
| 5.6      | Professional Growth of Teachers – Pre-service and In-service Teacher Education   | Lecture cum discussion                              | 6                 |                                  |



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 Principal in Charge  
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 Education for Women,  
 Ernakulam

*Smiltra*  
**Dr. Smiltra Jose**  
 Assistant Professor

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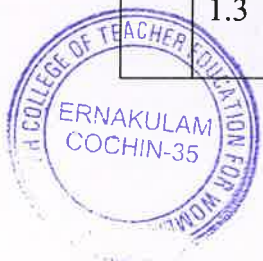


**St Joseph College of Teacher Education for Women, Ernakulam**

### Course Plan

**Name of the Faculty** : Dr . Siji John  
**Name of the Programme** : B.Ed  
**Semester** : II  
**Course Code/ Title** : EDU204.19 Pedagogical Dimension of Social Science  
**Duration** : 28/03/2022 to 30/09/2022

| Sl. No | Modules  | Strategies Adopted for Content Transaction               | Duration                        | Remarks                   |
|--------|--|--|---------------------------------|---------------------------|
| 1      | <b>Module1 – Psychological Dimension of Social Science Teaching (15 Hours)</b> |  | <b>28/03/2022 to 24/06/2022</b> | Completed as per schedule |
|        | 1.1 –Behaviorism in Teaching Social Science                                    | Assignment, Lecture method, Questioning                  | 4 Hours                         |                           |
|        | 1.2 – Constructivism as a theoretical Backing for Social Science Education     | Lecture Method, group discussion, Seminar, Peer Tutoring | 4 Hours                         |                           |
|        | 1.3 Implications   | Discussion, Library                                      | 4 Hours                         |                           |



|           |   |   |                                 |   |
|-----------|---|---|---------------------------------|---|
|           | of Theory of Multiple Intelligence  | work, Assignment method                                       |                                 |   |
|           | 1.4 – Critical Pedagogy as an approach to address Social Issues                 | Seminars , group discussion, Lecture Method, Buzz Session     | 4 Hours                         |   |
|           |   | <b>Oral test, test paper</b>                                  | <b>1 Hour</b>                   |   |
| <b>2.</b> | <b>Module 2- Planning for Instruction (10 hours)</b>                            |   | <b>27/06/2022 to 22/07/2022</b> | Induction from 11/07/2022 to 05/08/2022. Completed the module on 17/08/2022 |
|           | 2.1 – Need and Significance of Planning   | Seminars , group discussion, Lecture Method                   | 3 Hours                         |   |
|           | 2.2 – Types of Planning- Year Plan- Unit Plan- Lesson Plan.                     | Seminars, Questioning. Lecture . Peer Tutoring, Library Works | 3 Hours                         |   |
|           | 2.3- Approaches in Lesson Planning- Herbartian – Constructivist                 | Video presentation , Lecture Method , Seminar Presentations,  | 4 Hours                         |   |
|           |   | <b>Test Paper</b>   | <b>1 Hour</b>                   |   |
| <b>3.</b> | <b>Module 3 - Evaluation in Social Science Teaching and Learning (10 Hours)</b> |   | <b>25/07/2022 to 12/08/2022</b> | Rescheduled   |
|           | <b>3.1 –</b>  | Lecturing, Questioning,                                       | 3 Hours                         |   |



|          |   |  |                             |   |
|----------|---|--|-----------------------------|---|
|          | Construction of Achievement Test, Diagnostic Test and Remediation.    | Brain Storming.<br>Experiential Learning   |                             | from<br>19/08/2022 to<br>06/09/2022             |
|          | 3.2 – Types of Test Items- Merits and Demerits                        | Brainstorming ,<br>Questioning, Group Discussion   | 2 Hour                      |   |
|          | 3.3 – Teacher Evaluation- Criteria for evaluating teaching Competence | Brainstorming,<br>Questioning, Group Discussion,<br>Experiential Learning,<br>Participatory Learning | 3 Hour                      |   |
|          | 3.4 – Students self Evaluation – Preparation of Tool                  | Brainstorming ,<br>Questioning, Group Discussion   | 2 hour                      |   |
|          |   | <b>Oral and Written Test</b>   | <b>1 Hour</b>               |   |
| <b>4</b> | <b>Module 4 Techno Pedagogical Content Knowledge (15 Hours)</b>       |  | 16/08/2022 to<br>06/09/2022 | Rescheduled from<br>12/09/2022 to<br>23/09/2022 |
|          | 4.1 Pedagogical Content Knoweldge- Techno Pedagogical Content         | Participatory Learning,<br>Group Discussion  | 5 Hour                      |   |





|          |   |   |                          |   |
|----------|---|---|--------------------------|---|
|          | Knowledge,<br>Discussion  |   |                          |   |
|          | 4.2 Ways and Means to link Technology to Pedagogic Content Knowledge                | Questioning, ICT integrated, Brain Storming.              | 5 Hours                  |   |
|          | 4.3 Teacher as a Techno Pedagogue   | Brainstorming, Lecturing, group discussions, library work | 5 hours                  |   |
|          |   | <b>Oral Questioning ad Test Paper</b>                     | 1 Hour                   |   |
| <b>5</b> | <b>Module 5 - Content analysis in Social Science (10 Hours )</b>                    |   | 12/09/2022 to 25/09/2022 | Rescheduled from 25/07/2022 to 30/09/2022 |
|          | 5.1 – Content analysis of prescribed Text books from STD VIII – X to State syllabus | Participatory Learning Group Discussion, Peer Tutoring.   | 10 Hours                 |   |
|          |   |   |                          |   |
|          | <b>Revision,</b>  |   | 26/09/2022 onwards       |   |

Signature

Name

Designation

- Siji John

- Dr. Siji John

- Asst. Professor



*Alice Joseph*  
Dr. Alice Joseph  
Principal in Charge  
St. Joseph College of Teacher  
Education for Women,  
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**St Joseph College of Teacher Education for Women, Ernakulam**

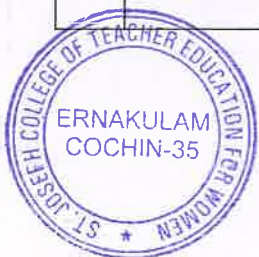
**Course Plan**

**Name of the Faculty** : ROSY TINTU M P and ANU CLEETUS  
**Name of the Programme** : B.Ed  
**Semester** : I  
**Course Code/ Title** : EDU106.14, ENVIRONMENTAL EDUCATION  
**Duration** : 01/09/2022 to 19/01/2023

| Sl. No | Modules  | Strategies Adopted for Content Transaction   | Duration                                  | Remarks                   |
|--------|--|--|---|---------------------------|
| 1      | <b>Module1 –Environmental Education (15 Hours)</b>   |  | <b>01/09/2022<br/>till<br/>26/09/2022</b> |                           |
|        | 1.1 Meaning, Nature, Objectives and Psychological Perspectives of Environmental Education. | Lecture cum discussion, ICT integrated teaching and learning, Group presentations based on group investigation model | 3hrs                                      | Completed as per schedule |
|        | 12 National Movements to protect the environment-  | Lecture cum  | 4hrs                                      |                           |



|  |  |  |                                   |                           |
|--|--|--|-----------------------------------|---------------------------|
|  | Western Ghats: It's relevance as UNESCO world heritage site. Biodiversity of Western Ghats. Its role in controlling climate of Kerala. Threats to Western Ghats.   | discussion, ICT integrated teaching and learning,            |                                   |                           |
|  | 1.3 Environmental Impact Assessment  | Lecture cum discussion, ICT integrated teaching and learning | 4hrs                              |                           |
|  | 1.3 Legislative measures for environmental protection at national and international level.   | ICT integrated teaching and learning                         | 1                                 |                           |
|  | 1.4 Methods and Strategies for cultivating eco literacy at Primary, Secondary and Higher secondary Level<br>(a) Fieldtrips, workshops, exhibitions, videoshows, nature clubs, nature walk and celebration of environment days.<br>Practical measures - saving energy, hygiene and sanitation programmes, eco-friendly behavior, organic farming, 'clean and green campus' programme. | Lecture cum discussion, ICT integrated teaching and learning | 2hrs                              |                           |
|  | 1.5 Environmental Citizenship – Environmental ethics and Environmental Accountability.   | ICT integrated teaching and learning                         | 1hr                               |                           |
|  | Assessment   | Oral test, Test  | 1 hr                              |                           |
|  | <b>Module 2 – Our Environment (6hours)</b>   |  | <b>29/07/2022 till 15/08/2022</b> |                           |
|  | 2.1 Concept of an ecosystem  | Peer group discussion, lecturing cum                         | 1hrs                              | Completed as per schedule |



|          |   |  |                            |                           |
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|          |   | demonstration and learning   |                            |                           |
| 2.2      | Characteristic features, structure and functions of land and aquatic ecosystems   | Peer group discussion, lecturing, ICT integrated teaching and learning | 1hrs                       |                           |
| 3        | Energy flow in the eco system, Ecological succession, Ecological Pyramids   | Seminar  | 1hr                        |                           |
|          | 2.4 Bio-geo chemical cycles   | Seminar  | 1hr                        |                           |
|          | 2.5 Carrying capacity and Ecological balance  | Seminar  | 1hr                        |                           |
|          | Assessment  | oral test. Assignment, seminar   | 1hrs                       |                           |
| <b>3</b> | <b>Module 3 – Challenges of Environment (15 hours)</b>  |  | 16/08/2022 till 16/10/2022 |                           |
|          | 3.1 Environmental Pollution- Causes, effects and remedial measures<br>(a) Air Pollution (b) Water Pollution (c) Soil Pollution (d) Thermal Pollution (e) Radio Active Pollution (f) Noise Pollution (g) E-waste pollution | Seminars, group discussions, ICT based lecturing                       | <b>3hrs</b>                | Completed as per schedule |
|          | 3.2 Deforestation, Soil erosion, Climate change, Greenhouse effect, Global warming, Ozone depletion, Acid rain, Bio-magnification, Eutrophication.  | Seminars, group discussions, ICT based lecturing                       | <b>3hrs</b>                |                           |
|          | 3.3 Population explosion–Urbanization   | group discussions,   |                            |                           |



|          |   |  |                                  |                           |
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|          |   | ICT based lecturing  |                                  |                           |
|          | 3.1 Waste management-Role and Responsibility of Individuals and Institutions in the management of E-waste, Nuclear waste, Medical Waste, Plastic Waste and Zero waste management.   | group discussions, ICT based lecturing                                 |                                  |                           |
|          | 3.4 Disasters: Their impact on the environment. Need and importance of Disaster management training. Role of teachers and educational Institutions in Disaster Management<br>(a) Natural – Epidemics, Forest fire, Floods, Earth quakes, Droughts, cyclones, landslides and tsunami.<br>(b) Man made - Technological and industrial   | Seminars, group discussions, ICT based lecturing                       |                                  |                           |
|          | Assessment  | Seminar, Assignment  | <b>2hrs</b>                      |                           |
| <b>4</b> | <b>Module 4– Education for Sustainable Development (20hours)</b>  |  | 17/10/2022<br>Till<br>14/11/2022 |                           |
|          | 4.1 Sustainable Development Meaning and Importance .Concept of Education for sustainable development(ESD)   | Seminars, group discussions, ICT based lecturing                       | <b>3hrs</b>                      | Completed as per schedule |
|          | 4.2 Natural resources: its Conservation, Role of individual<br>(a) Forest resources: use and over exploitation and reforestation<br>(b) Water resources: use and overutilization of surface and ground water, conflicts over water. Water conservation-dams, rain water harvesting, water shed management.<br>(c) Mineral Resources: use and exploitation<br>(d) Food resources: World food problems, changes caused due to agriculture, effects of modern agriculture.<br>(e) Energy resources: Growing energy needs, renewable and non renewable energy sources and use of alternate energy source. | Peer group discussion, lecturing, ICT integrated teaching and learning | <b>3hrs</b>                      |                           |



|   |   |  |                                  |                              |
|---|---|--|----------------------------------|------------------------------|
|   |   |  |                                  |                              |
|   | 43 Bio-diversity and its conservation:-<br>a)genetic, species and ecosystem diversity.<br>(b)Threats to biodiversity: habitat loss, poaching of wild life, man-wild life conflicts (c)Conservation of biodiversity: In-situ and ex-situ conservation. | Seminar  | 2hrs                             |                              |
|   | Assessment  | Seminar,<br>Conduction<br>of<br>microteachin<br>g  | 2hrs                             |                              |
| 5 | <b>Module 5 – Environment and Behavior (4 hours)</b>  |  | 15/11/2022<br>till<br>20/12/2023 |                              |
|   | 5.1 Environmental Sensitivity and Environmental stress  | Lecture cum<br>demonstratio<br>n, ICT<br>integration,Pe<br>er discussion                           | 3hrs                             | Completed as<br>per schedule |
|   | 5.2 Stressors: Natural disasters, Pollution and Overcrowding  | Lecture cum<br>demonstratio<br>n, ICT<br>integration,Pe<br>er<br>discussion,C<br>AI<br>preparation | 3hrs                             |                              |
|   | 5.1Effect of stressors on health and behavior – Morbidity, respiratory problems, skin problems, nervous system diseases, hypertension, aggression, performance impairment.  | Lecture cum<br>demonstratio<br>n, ICT<br>integration,Pe<br>er discussion,                          | 3hrs                             |                              |
|   | ASSESSMENT  | Test,oral test   | 2hrs                             |                              |



*Alice Joseph*  
Dr. Alice Joseph  
Principal in Charge  
St. Joseph College of Teacher  
Education for Women,  
Ernakulam

*[Signature]*  
DNU CLEETUS,  
Asst PROFESSOR IN  
GENERAL EDUCATION

*[Signature]*  
Rosy Tintu M.P.  
Asst. Professor in Physical Science  
Education

1. The first part of the document is a letter from the Secretary of the State to the Governor, dated 18th March 1871. It contains a report on the progress of the work done during the year, and a list of the names of the members of the Council of the State.

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**St Joseph College of Teacher Education for Women, Ernakulam**

### Course Plan

**Name of the Faculty** : Dinimol Jacob  
**Name of the Programme** : B.Ed  
**Semester** : IV  
**Course Code/ Title** : Edu 403.18- Professional Development of Natural Science Teacher  
**Duration** : 14/03/2022 to 03/09/2023

| Sl. No | Modules   | Strategies Adopted for Content Transaction | Duration                      | Remarks                   |
|--------|---|--|-------------------------------|---------------------------|
| 1      | <b>Module 1 – Teacher Qualities and Competencies</b>  |  | <b>14/03/2022-31 /03/2022</b> |                           |
|        | 1.1 Teacher Qualities, Responsibilities and Duties, Duties and Responsibilities of Natural Science Teacher  | Lecture cum discussion, Brainstorming      | 3 Hours                       |                           |
|        | 1.2 Teacher Competencies –Contextual, Conceptual, Curricular and Content, Transactional, Assessment, Management(Institution, Classroom, Resources, Co-Curricular Activities) Parental contact and Cooperation and | Lecturing, Discussion                      | 5 Hours                       | Completed as per schedule |





|          |   |   |                              |                           |
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|          | Community Extension   |   |                              |                           |
|          | 1.3 Vision and Mission as a Natural Science Teacher   | Lecturing,<br>Group discussion                  | 2 Hours                      |                           |
|          | 1.4 Teacher accountability-professional ethics of a teacher. Vision and Mission as a Natural Science Teacher  | Lecture cum discussion,<br>Cooperative learning | 4 Hours                      |                           |
|          |   | <b>Test Paper</b>                               | <b>1 Hour</b>                |                           |
| <b>2</b> | <b>Module 2 - Professional Development of Natural Science Teacher</b>   |   | <b>01 06/2022-17/06/2022</b> |                           |
|          | 2.1 Professional Development – Meaning and Significance   | Lecturing,<br>Brainstorming                     | 2 Hours                      | Completed as per schedule |
|          | 2.2 Teacher as a professional-Characteristics   | Lecture cum discussion                          | 2 Hours                      |                           |
|          | 2.3 Need for continuous professional development  | Group discussion                                | 2 Hours                      |                           |
|          | 2.4 Ways and Means of Developing Professionalism  | Co-operative learning                           | 3 Hours                      |                           |
|          | 2.5 Agencies for Professional Development- In service Programmes- Professional Organisations - Participation in Seminars and workshops - Published Work - Peer networking – soft skill development. | Lecture cum discussion, ICT integrated method   | 5 Hours                      |                           |
|          |   | <b>Written Test</b>                             | <b>1 Hour</b>                |                           |
| <b>3</b> | <b>Module 3 - Natural Science Teacher and Society</b>   |   | <b>20/06/2022-08/07/2022</b> |                           |
|          | 3.1 Agent of Social Change  | Group discussion,                               | 2 Hours                      |                           |



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|          |  | Group presentations                           |                                | Completed as per schedule                |
|          | 3.2 Role in Socialization - Promotion of Culturally inclusive classroom environment  | Seminar                                       | 4 Hours                        |  |
|          | 3.3 Science, Technology and the New Role of the Teacher  | Seminar, Discussion                           | 3 Hours                        |  |
| <b>4</b> | <b>Module 4 - Special Issues and Concerns</b>  |   | <b>01/06/2023-24/06/2023</b>   | Completed as per schedule                |
|          | 4.1 Green Genetic Engineering  | Group discussion                              | 2 Hours                        |  |
|          | 4.2 Food safety  | Seminar, Discussion                           | 2 Hours                        |  |
|          | 4.3 Personalised Medicines - 3D Bioprinting  | Group discussion                              | 3 Hours                        |  |
|          | 4.4 Bioterrorism   | Seminar, Discussion                           | 2 Hours                        |  |
|          |  | <b>Test Paper</b>                             | <b>1 Hour</b>                  |  |
| <b>5</b> | <b>Module 5 - Challenges in Teaching</b>   |   | <b>01/08/2022 - 20/08/2022</b> | Rescheduled from 26/07/2022 to 6/08/2022 |
|          | 5.1 Recent Research Trends in Science teaching and learning in schools – Content, Techniques, Strategies, Assessment       | Lecture cum discussion, ICT integrated method |                                |  |
|          | 5.2 Teaching students with diverse learning needs and talents-New trends.  | Lecturing, Brainstorming                      |                                |  |
|          | 5.3 Implementation of Teacher Competence to Optimizing learners' development of Intellectual, Emotional and Moral aspects. | Lecture cum discussion                        |                                |  |



|  |  |                   |               |  |
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|  |  | <b>Test Paper</b> | <b>1 Hour</b> |  |
|--|--|-------------------|---------------|--|

Signature : Dinimol

Name : Dinimol Saeb

Designation : Assistant Professor in Natural Science  
Education



Alice Joseph  
Dr. Alice Joseph  
Principal in Charge  
St. Joseph College of Teacher  
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