बरकतउल्ला विश्वविद्यालय,भोपाल Barkatullah University, Bhopal

Two-year (Four Semester)
Bachelor of Education (B.Ed.)

Course of Studies & Prescribed Books Approved by Board of Studies in Education



शिक्षा संकाय पाठ्यकम एवं निर्धारित पुस्तकें बैचलर ऑफ एज्यूकेशन दो वर्षीय (चतुर्थ सेमेस्टर) पाठ्यकम द्वितीय सेमेस्टर

Faculty of Education
B.Ed. Examination 2015-16
Second Semester

प्रकाशक कुलसचिव बरकतउल्ला विश्वविद्यालय,भोपाल

2015-16

Syllabus & Course Structure BACHELOR OF EDUCATION (B.Ed.)

B.Ed. Course Scheme of Examination – Semester Scheme

Semester - II

Course/Paper	Hours per	Total marks	Internal (Formative)		External (Summative)	
	week		Max.	Min.	Max.	Min.
Group B : Core Course						
CC 1: Learning & Teaching	6	100	25	9	75	27
2. PC (1) Pedagogy of a school	6	100	25	9	75	27
subject-Part-I (Subject: 1 Physical						
Science (Physics/Chemistry)						
Biology/Maths/Social Sciences						
(SS)/Language - Hindi/English/						
Urdu/ Sanskrit/Other Region-						
Specific lang.)						
3. PC (II) Pedagogy of a School	4	100	25	9	75	27
(Part-II) : Subject Knowledge and						
the Related Pedagogic Dimensions						
(Subject: 1 Science-Chemistry/						
Physics/History/Civics/Geography						
/ Economics/ Commerce)						
4 Language across the	6	50	15	6	35	12
curriculum- Part-2						
EPC 2: Drama & Art in Education	2	50	20	7	30	11
Total		400	110	40	290	104

Note: Assignments & Tasks for Courses 1,2,3,4

CC 1: Learning & Teaching

Max. Marks: 75

Min. Marks: 25

Aims of the Course

- To become aware of different contexts of learning and situate schools as a special environment for learning;
- To reflect on their own implicit understanding of the nature and kinds of learning;
- Gain an understanding of different theoretical perspectives on learning with a focus on cognitive views of learning as well as social—constructivist theories;
- Explore the possibilities of an understanding of processes in human cognition and meaning-making them as basis for designing learning environments and experiences at school; and
- Appreciate the critical role of learner's based on differences and contexts in making meanings, and hence draw out implications for schools and teachers.

UNIT 1: THEORETICAL PERSPECTIVES ON LEARNING

- Implicit knowledge and beliefs about learning (demystifying misconceptions).
- Perspectives on human learning: Behaviourist (conditioning paradigm in brief), cognitivist, information-processing view, humanist, social-constructivist (drawing selectively on the ideas of Skinner, Piaget, Rogers, Vygotsky).
- Concepts and principles of each perspective and their applicability in different learning situations.

UNIT 2: ROLE OF LEARNER IN LEARNING

- Role of learner in various learning situations, as seen in different theoretical perspectives
- Role of teacher in teaching-learning situations: a) transmitter of knowledge, b) model, c) facilitator, d) negotiator, e) co-learner. (The focus is on building understanding of different psychological perspectives of learning and helping student teachers to learn to apply them in different learning situations).
- Distinctions between learning as 'construction of knowledge' and learning as 'transmission and reception of knowledge'.

UNIT 3: LEARNING IN 'CONSTRUCTIVIST' PERSPECTIVE

- Social-constructivist perspective (also Bruner and Ausubel's perspective) and applications of Vygotky's ideas in teaching.
- Understanding processes that facilitate 'construction of knowledge':
 - (i) Experiential learning and reflection
 - (ii) Social mediation
 - (iii) Cognitive negotiability
 - (iv) Situated learning and cognitive apprenticeship
 - (v) Meta-cognition.
- Creating facilitative learning environments, teachers' attitudes, expectations –
 enhancing motivation, positive emotions, self-efficacy, collaborative and self
 regulated learning. (The focus is on learning as a constructive rather than a
 reproductive process. The learner- centered orientation has implications for
 understanding learning as contextual and self-regulated process and following
 suitable classroom practices).

UNIT 4: INDIVIDUAL DIFFERENCES AMONG LEARNERS

- Dimensions of differences in psychological attributes—cognitive abilities, interest, aptitude, creativity, personality, values.
- Understanding learners from multiple intelligences perspective with a focus on Gardner's theory of multiple intelligences. Implications for teaching-learning in the light of changing concept of intelligence, including emotional intelligence.
- Differences in learners based on predominant 'learning styles'.
- Differences in learners based on socio-cultural contexts: Impact of home languages
 of learners' and language of instruction, impact of differential 'cultural capital' of
 learners.
- Understanding differences based on a range of cognitive abilities— learning difficulties, slow learners and dyslexics, intellectual deficiency, intellectual giftedness. Implications for catering to individual variations in view of 'difference' rather than 'deficit' perspective. (The focus is on understanding the differential learning needs of the learners with regard to abilities, learning styles, language, socio-cultural differences/disadvantage, learning difficulties, and their implications for classroom practices and teaching)

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CC 2. Pedagogy of a School Subject – Part 1 Hindi (A)

Max. Marks: 75 Min. Marks: 17

Objectives: Upon completion of the course, the student-teachers will be able to:

- 1. Appreciate the importance of teaching Hindi as a second / third Language.
- 2. Help the Students to understand the aims and objectives of teaching Hindi.
- 3. Help pupils to acquire basic skills of language teaching, Aims/Objectives.
- 4. Know the different methods of teaching.
- 5. Prepare a lesson notes and teach accordingly.
- 6. Appreciate and use of modern educational media.

Unit 1: Perspectives of Hindi Language, Aims and Objectives of Teaching Hindi

- Meaning and concept of language.
- Nature and importance of language
- Three language formula and Hindi
- Place of Hindi in the Secondary School Curriculum of M.P.
- Present position of Hindi in India
 - a. In the constitution
 - b. In the life of Indian people
- Aims of teaching Hindi as a second / third language.
- Functional aims of Hindi Teaching.
- Cultural Aims of Hindi Teaching. National and International Aims of Hindi Teaching.
- Instructional objectives with practical -- Theoretical background Writing of instructional objectives of Hindi Teaching
- Modification of Objectives in terms of behavioural changes.

Unit 2: Planning Lessons, Resource Units, Unit Plan, Drill Lessons

- Planning of prose, poetry and Grammar lessons.
- Processing of lesson notes and micro lesson plans.
- Meaning and importance of a Unit plan and administration.
- Resource Units Use and implications.
- Plan and process of lessons in Practice teaching.

Unit 3: Language Skills

- Development of language skills- listening objectives and importance activities for its development
- Speaking Objectives activities for its development role of learning by heart, role-play, extempore and prepared speeches, debates, languages games, substitution table need for correct pronunciation – Remedial Measures
- Reading- Objectives Types of reading silent and loud, intensive methods of teaching reading
- Writing Objectives Characteristics of handwriting dictation
- Composition Objectives Types Oral, written and picture composition Free and guided composition, Translation – Objectives- Importance's – Characteristics of good translation

Unit 4: Curriculum Design

- Principles of Curriculum construction of Hindi
- Curriculum Design in Hindi-Subject centered–Learner Centered– Problem centered.
- Transaction of curriculum / Co-curricular, Extracurricular activities pertaining to teaching and learning.
- Curriculum of prose poetry and composition. Prose Ancient / Medieval /
 Modern prose versions. Poetry Bhakti period Ritti period Modern period.
 Composition Exercises, Assignments and remedial teaching activities and
 - Grammar Translations
- Curriculum development and evaluation.

Seminar Topics (any one)

- a) Preparing scheme of assessment
- b) A study of an author / poet.
- c) Developing Linguistics Skills.
- d) System our examination.
- e) Importance of teaching materials for effective teaching.

Practicum

- a) Review of Books 8, 9 standard school text books.
- b) Resource Unit Uses.
- c) Unit plan processing.
- d) A study of an Author / Poet.
- e) Developing Linguistics Skills.

Assignments (any one)

- 1. Solving grammar exercise of 8th and 9th Standard Text books of second language Hindi/Third Language. Hindi
- 2. Preparing crossword puzzles on technical terms, difficult terms of prescribed Hindi Text Books.
- 3. Construction of substitution tables on the concerned texts
- 4. Report on constitutional provisions provided to Hindi and the implication. (Note: Records should be maintained).

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CC 2. Pedagogy of a School Subject – Part 1

Sanskrit(B)

Max. Marks: 75 Min. Marks: 27

Objectives - Upon completion of the course the student-teacher will be able to:

- 1. Understand the importance of Sanskrit language and its contribution to Indian culture and emotional integration.
- 2. Understand the aims and objectives of teaching Sanskrit and state them in the form of specific behavioural changes.
- 3. Prepare objective based lesson plans and implement them.
- 4. Understand the basic skills of language learning.
- 5. Understand the principles of curriculum construction in Sanskrit.
- 6. Understand the different methods of teaching Sanskrit and use them in his practice teaching lessons.
- 7. Understand the importance of appropriate instructional material and use them in his practice teaching lessons.
- 8. Understand the importance of Language Laboratory.
- 9. Understand the importance of Evaluation, prepare and use different tools of Evaluation in language learning.
- 10. Understand the importance of co-curricular activities in language learning.
- 11. Imbibe the special qualities of Sanskrit teacher.

Unit 1: Sanskrit Language - Nature and Importance

- Importance of Sanskrit language
- Contributions of Sanskrit to other Indian Languages to Indian culture and tradition and to emotional integration

Unit 2: Place of Sanskrit in the Secondary School Curriculum

- Aims & Objectives of teaching Sanskrit with reference to three language formula.
- Instructional Objectives- Specifications of each objective in the form of specific behavioural changes.

Unit 3 : Lesson Plan in Sanskrit Language

- Planning lesson plans in prose, poetry, grammar and composition.
- Unit plan: importance, characteristics, format
- Resource unit: importance, characteristics, format
- Micro lesson plan: importance, format, practice

Unit 4: Development of Language Skills, Curriculum Design

- Listening: importance, activities for its development.
- Speaking: importance, characteristics of good speaking, activities for its development.
- Reading: mechanics of reading, objectives, different kinds of reading silent reading and loud reading.
- Writing: importance of good handwriting specialties of the Devanagari script,
 causes of spelling mistakes, remedial measures.
- Principles of curriculum construction of Sanskrit.
- Curriculum design in Sanskrit: subject centered, learner centered, problem centered.
- Transaction of curricular/ co-curricular activities.
- Curriculum development and evaluation.

Reference

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CC 2. Pedagogy of a School Subject – Part 1 English(C)

Max. Marks: 75 Min. Marks: 27

Objectives: upon completion of the course the student teacher will be able to:

- 1. To master the different techniques, devices of the Second language structure, sounds and vocabulary.
- 2. To understand the status of English language.
- 3. To distinguish between different approaches and methods of teaching English and their use in the classroom.
- 4. Acquire the basic skills of language learning.
- 5. Plan and execute of different types of lessons in prose, poetry according to classroom situations.
- 6. To appreciate the importance and use of suitable audio -visual aids in class room situations.
- 7. To know the principles of curriculum construction.
- 8. To prepare and use appropriate tools of evaluation to measure the linguistic abilities of the pupils.
- 9. To realize his/her responsibilities as language teacher and pursue towards the aims of professional growth.
- 10. To guide the students to use the language correctly.

Unit 1: Nature of English Language

- 1.1 Language its nature and structure Meaning of language, Functions of language Informative, expressive and Directive Linguistic Principles.
- 1.2 Structure of English Language- phonological, morphological, Syntactic, Semantic and graphic (a brief explanation of the concepts)

Unit 2 : Aims and Objectives of Teaching English

2.1 Aims and objectives of teaching English at the Secondary School level as first and second language.

- 2.2 English as a library language, link language and international language.
- 2.3 Position of English in India before and after Independence The three language formula its meaning and scope.

Unit 3: Instructional design of Teaching English Language

- 3.1 Teaching of Prose detailed and non-detailed Objectives Methods and Approaches steps in lesson planning.
- 3.2 Teaching of poetry Objectives-Methods and Approaches Steps in lesson planning.
- 3.3 Teaching of Grammar Objectives Formal and Functional -Methods of teaching grammar.
- 3.4 Use of mother tongue in teaching of English, different occasions for its effective use
- 3.5 Preparation of Unit plan, Resource Unit.

Units 4: Methods, Approaches to Develop English Language Skills

Psychological principles of learning English as a foreign language. Methods and approaches of Teaching English

- a. Grammar Translation Method.
- b. Direct Method
- c. Bilingual method.
- d. Structural approach- Dr. WEST method
- e. Communicative approach.
- 4.1 Development of language skills listening objectives and importance activities for its development.
- 4.2 Speaking Objectives Activities for its development, role of learning by heart, roleplay, extempore and prepared speeches, debates, language games, substitution table need for correct pronunciation, defects in pronunciation - Remedial Measures.
- 4.3 Reading Objectives Types of reading silent and a loud, intensive methods of teaching reading.
- 4.4 Writing Objectives Characteristics of handwriting dictation.

Composition - Objectives - Types (oral, written and picture composition) Free and guided composition Translation - Objectives— Importance - Characteristics of good translation.

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BARKATULLAH UNIVERSITY, BHOPAL CC 2. Pedagogy of a School Subject – Part 1

Physical Science (Physics and Chemistry)

Max. Marks: 75

Min. Marks: 27

Objectives: Upon completion of the course, the student teacher will be able to:

- 1) Understand the nature, scope and importance of Physical science with special reference to secondary school content.
- 2) Understand the aims and objectives of teaching Physical science.
- 3) State the specific behavioral changes under each objective.
- 4) Understand and make use of different approaches & methods of teaching Physical science.
- 5) Prepare objective based lesson plans and use them in their internship.
- 6) Understand and employ several teaching techniques helpful to develop scientific attitude and scientific method.
- 7) Plan, use and maintain the physical science laboratory systematically.
- 8) Understand the principles of text-book construction.
- 9) Understand the importance of appropriate instructional materials (hardwares and softwares) in teaching Physical science and use them by preparing/selecting them in their practice teaching.
- 10) Understand the importance of principles of curriculum construction in the organisation of Physical science contact.
- 11) Get mastery in Physical science content and imbibe the special qualities of Physical Science teacher.
- 12) Prepare and use different tools of evaluation to assess the achievements of students in Physical Science.
- 13) Develop professionally by attending lectures of professional interest, reading journals, and magazines and enroll as members of professional organisation.
- 14) Organise co-curricular activities in science i.e. seminars, field trips, exhibitions discussions etc through the science club.

- 15) Apply the knowledge of physical science to develop scientific thinking and scientific outlook.
- 16) Develop skills in analyzing the content in terms of concepts and in learning experiences.
- 17) Construct and administer unit test, conduct experiments improves teaching aids.

CONTENT

Unit 1: Meaning, Nature and Impact of Physical Science

- Concept of science Science as process and science as a product;
- Nature and Scope of Physical Science
- Impact of Science and Technology on modern living.
- Scientific Attitude Meaning definition and importance.
- Qualities of a person who possesses scientific attitude.
- Scientific Method-Meaning, importance and steps involved (with an illustration).

8 hours

Unit 2: Aims and Objectives of Teaching Physical Science

- Aims of teaching Physical science in Secondary school:
 - 1 Personal development aim,
 - 2 Learner's academic and process skills development aim,
 - 3 Disciplinary aim and
 - 4 Cultural aim.
- Objectives of teaching physical science:
 - 1 Bases for formulation of objectives
 - 2. Objectives of teaching Physical science at Secondary level; (To be Discussed keeping in view of the objectives of teaching Physical science enunciated in the physical science syllabi of secondary school of M.P.); Instructional objectives of teaching physical science and stating them in observable behavioral changes; i) Knowledge ii) Understanding, iii) Application, iv) Skill, v) Attitude, vi) Interest, vii) Appreciation.

10 hours

Unit 3: Approaches and Methods of Teaching Physical Science

• Enquiry Approach-Meaning, Uses with Illustrations, Advantages and disadvantages.

- Inductive Approach-Meaning, Uses with Illustrations, Advantages and disadvantages.
- Deductive Approach-Meaning, Uses with Illustrations, Advantages and disadvantages.
- Problem Solving Approach- Meaning, Uses with Illustrations, Steps, Advantages and disadvantages.
- Demonstration Method- Meaning, uses, Advantages and disadvantages.
- Lectures-Cum-Demonstration Method- Meaning, uses with Illustration, Advantages and disadvantages.
- Laboratory Method- Meaning, uses with Illustration, Advantages and disadvantages.
- Guided Discovery Method Meaning, uses with Illustration, Advantages and disadvantages.
- Biographical Method-Meaning, uses with Illustration, Advantages and disadvantages.
- Individual Instruction Techniques and Active Learning Strategies.
- Concept Mapping: Its use for summarizing a unit and evaluating students understanding

Unit 4: Instructional Design, Resources and Teaching Aid for teaching Physical Science:

- Lesson Planning-Meaning, Steps, Importance and Format of Lesson Plan according to active learning strategies.
- Unit Plan-Meaning, Steps, Importance and Format of Lesson Plan
- Resource Unit-Meaning, Steps, Importance and Format of Lesson Plan
- Audio-Visual Aids (Preparation and Use)
 - I Charts;
 - ii Models;
 - iii OHP transparencies;
 - iv Filmstrips;
 - v slides;
 - vi Video tapes;
 - vii Films;
 - viii Educational C.D.'s
- Mass Media
 - i Television (T.V.);

- ii Radio Meaning and importance.
- Community Resources and Self learning materials
 - iii Meaning and importance.
- Physical Science Library;
- Importance & organizing of physical science library;
- Sections of science library;
- Choice of book for science library.

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CC 2. Pedagogy of a School Subject – Part 2

History/Civics

Max. Marks: 75

Min. Marks: 27

Objectives: Upon completion of the course the student-teacher will be able to:

- 1. Understand meaning, scope and importance of History and civics in the school curriculum.
- 2. Acquire content knowledge of methods of history and civics.
- 3. Acquire knowledge of aims and instructional objectives of teaching history and civics
- 4. Acquire skills in planning lessons in History and civics
- 5. Understand and apply the principles of organizing content in the teaching history and civics.
- 6. Acquire knowledge about Local, Regional National, and World History.
- 7. Acquire the knowledge of Instructional Material and resources in teaching History and Civics
- 8. Preparing suitable teaching devices & using them & organizing field trips.
- 9. Proficiency in correlating History and civics with other school subjects.
- 10. Cultivate the qualities of a good History and civics teacher
- 11. Acquire the knowledge of content of History and civics for viii to xth standard in Karnataka
- 12. Evaluate History and civics text books and prescribed courses
- 13. Develop necessary skills in the application of methods and techniques in the classroom

CONTENT

Unit 1: Nature and Scope of History and Civics

- 1.1 Meaning, Nature, and scope of history
 - 1.1.1. History an art or Science
 - 1.1.2 Modern Concept of History, exploration, criticism synthesis and exposition.
 - 1.1.3 Different levels of History World History, National, Regional and Local History
- 1.2. Meaning and scope of civics
 - 2.1.1 Man as a social animal and as a citizen

Unit 2: Aims and Objectives of Teaching History and Civics

- 2.1 Meaning and Importance of teaching History and civics in Secondary Schools
- 2.2 Aims of teaching History and Civics
 - 2.2.1 Political conciseness, understanding of current events, democratic citizenship, understanding of Union and the State Govt.
 - 2.2.2 Functional awareness of Rights and Duties of citizens.
- 2.3 Instructional objectives and values of Teaching History and civics
 - 2.3.1 Knowledge, understanding, critical thinking, skills, Attitude, Interests, Application - Analysis of these objectives in terms of specific behaviours of learners.
 - 2.3.2 Spelling out Instructional objectives and learning outcomes
 - 2.3.3 History and civics based hobby clubs, societies
- 2.4 Correlation of History and Civics with other School Subject
- 2.4.1 Meaning and Importance of correlation
- 2.4.2 Types of correlation.
- 2.4.3 Correlation of History with Geography, Economics, Literature
- 2.4.3 Co curricular /Activities in History and Civics
- 2.4.5 Importance of organization of field trips, visits.

Unit 3: Instructional design in Teaching History and Civics

- 3.1 Format of lesson plan: Its stages, Selection of relevant content, selection of appropriate teaching devices and assignments, and plan according to active learning strategies.
- 3.2 Resource Unit
- 3.3 Unit Plan

Unit 4: Methods, Techniques, and Instructional Materials of teaching History and civics

- 4.1 Meaning and need of methods
- 4.2 Methods and techniques of teaching History –discussion, project, problem solving, source, dramatization and biographical, Active Learning Strategies.
- 4.3 Methods of teaching Civics Survey observation, comparative and demonstration, Active Learning Strategies.
- 4.4 Instructional Materials in History and civics :
 - 4.4.1 Collateral Reading Importance, Reading materials, Historical Novels
 - 4.4.2 Auto biographic, Magazines, News papers Drams, Journals Audio-Aids-Radio, Tape recorder, Visual-Aids-Maps- Importance,
 - 4.4.3 Types, procedure of using maps, pictures, charts, models, film strips, diagrams,
 - 4.4.4 Audio-Visual Aids-Films, TV
 - a. History Room-Meaning and Importance, planning equipping
 - b. Computers, multimedia packages and Internet as an Instructional aid.

Practical

- 1. Critical evaluate History civics content of 8^{th} 9^{th} 10^{th} Standard.
- 2. Conducting quiz Competition in History/civics.
- 3. Survey of the locality and collection of information about places or institutions of historical interests.
- 4. Organizing short field trip to a place of historical / political interests
- 5. Preparing resource unit on a topic of your choice in History and Civics.
- 6. Preparation of materials for a History room or museum
- 7. Student is also allowed to do his own interested practical work pertaining to the syllabus.

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CC 2. Pedagogy of a School Subject – Part 2

Geography/Economics

Max. Marks: 75

Min. Marks: 27

Objectives: Upon completion of the course the student-teacher will be able to:

- 1. Acquire knowledge about basic facts, concepts, laws principles and trends in Geography and Economics
- 2. Acquire knowledge and understanding of the aims and objectives of Geography
- 3. Realize the values of learning geography
- 4. Make use of Audio-visual aids about Geography and Economics
- 5. Develop skills in equipping the Geography (i) Museum (ii) Room (iii) Library
- 6. Develop skills in organizing planning- learning experiments and in writing and organizing the lesson plan.
- 7. Acquire the knowledge of Geography Curriculum

CONTENT

Unit 1: Meaning, Nature and Scope of Geography and Economics

- 1.1 Meaning, Nature, Scope and importance of Geography
- 1.2 Branches of Geography and their importance- physical, economic, human and political.
- 1.3 Meaning, Nature, Scope and importance of Economics.
- 1.4 International relations and study of Geography and Economics

Unit 2: Aims and Objectives of teaching Geography and Economics

- 2.1 Aims/Values of teaching Geography and Economics
 - 2.1.1 Intellectual aims
 - 2.1.2 Cultural aims
 - 2.1.3 Environmental aims
 - 2.1.4 Utilitarian aims

2.1.5 Aesthetic aims

- 2.2 Taxonomy and objectives of teaching Geography and Economics
 - 2.2.1 Knowledge
 - 2.2.2 Understanding
 - 2.2.3 Application
 - 2.2.4 Attitude and interest
 - 2.2.5 National Integration. International Understanding.
 - 2.3 Co-relation of Geography and Economics with History, Science,Mathematics and languages
 - 2.4 Trends in Geography Education
 - 2.5 Importance and Organization of Field trips, Visits
 - 2.6 Geography based hobby clubs / societies (National geography specials)

Unit 3: Instructional Design in Geography and Economics:

- 3.1 Meaning, importance and format of lesson plan
- 3.2 Principles of lesson planning
- 3.3 Characteristics of a lesson plan
- 3.4 Prepare Lesson Plan according to Active Learning Strategies
- 3.4 Unit plan
- 3.5 Resource Unit

Unit 4: Methods of Teaching Geography and Economics

- 4.1 Meaning and importance of methods of teaching Geography and Economics
- 4.2 Different Methods of teaching Geography and Economics
 - 4.1.1 Lecture Method
 - 4.1.2 Laboratory Method
 - 4.1.3 Observation Method
 - 4.1.4 Excursion Method
 - 4.1.5 Project Method
 - 4.1.6 Discussion Method
 - 4.1.7 Active Learning Strategies

Practicum

- 1. Preparation of charts, globe and models of Geography.
- 2. Preparation of transparencies about- section of volcanoes, seabed, plains etc.
- 3. Interpretation of weather maps
- 4. Drawing of geographical maps
- 5. Preparation of resource unit in Geography

Assignments

- 1. Visit to an observatory, planetarium or Geography museum
- 2. Collection of specimens
- 3. Preparation of a project report based on local geographical survey.

Note

1. Submission of report after doing any one of the above practical work

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CC 2. Pedagogy of a School Subject – Part 2 Commerce

Max. Marks: 75 Min. Marks: 27

Objectives:

- To introduce student teachers with the methodology of teaching used in teaching of Commerce in schools.
- 2. To make student teachers aware of the values of Commerce and the relationship of Commerce with other subjects.
- 3. To encourage student teachers to use a wider range of teaching techniques in order to enable them to plan their lessons in teaching of commerce.
- 4. To acquaint student teachers with the role of teaching aids, textbook, homework, libraries in commerce.
- 5. To equip student teachers with the curriculum.

COURSE CONTENT:

UNIT-1

- 1. Meaning, nature, scope and concept of Commerce.
- 2. Place of commerce in secondary school curriculum and its critical appraisal.
- 3. Commerce and its relationship with other Social Sciences.

UNIT - II

- 1. Different methods of teaching commerce, uses and critical analysis.
 - a. Lecture Method
 - b. Discussion Method
 - c. Problem-Solving Method
 - d. Project Method
 - e. Survey Method
 - f. Demonstration Method

2. Commerce Text-books and Supplementary Materials.

Techniques of teaching commerce subject: Questioning – Answering, Assignment, Observation, Explanation and Illustration.

UNIT - III

- 1. Analysis and Discussion on skills of teaching Commerce (practice for developing atleast 5 micro skills).
 - a. Skill of introducing the lesson
 - b. Skill of questioning
 - c. Skill of explanation
 - d. Skill of stimulus variation
 - e. Skill of black board writing
 - 2. Lesson planning in commerce, Meaning, need and importance, construction of composite lesson plan. Lesson Plan according to Active Learning Strategies.
 - 3. Development and utilization of teaching aids(projects, Non-projected and performing arts) required for commerce programme.

UNIT - IV

- 1. Qualification, Qualities and Professional growth of Commerce Teacher.
- 2. Role of Co-curricular activities in commerce.
- 3. Types and Techniques of evaluation.

PRACTICALS:

- 1. Evaluation of a commerce text-book at Secondary level.
- 2. Writing objectives and specifications on any one topic from commerce and discussions amongst the group regarding decision making while selecting objectives and difficulties faced.

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- Nataraj S. (2006) Learning to teach, V.V. Nagar CVM
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- Adhyan Publication.
- Tomar S. (200) Teaching of Commerce Agra, Vinod Pustak Mandir.
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CC 2. Pedagogy of a School Subject – Part 1 Mathematics

Max. Marks: 75 Min. Marks: 27

Objectives: Upon completion of this course student teachers will be able to-

- 1. Recall the meaning, nature and scope of mathematics.
- 2. Acquaint aims and objectives of teaching mathematics in Secondary school level.
- 3. Plan teaching in mathematics at micro and macro level.
- 4. Prepare unit plans, resource unit and organize lesson to meet at different class room situations.
- 5. Analyse and evaluate the curriculum of mathematics at Secondary school level.
- 6. Apply different approaches and methods of teaching mathematics in classroom situations.
- 7. Prepare and use instructional materials in teaching mathematics.
- 8. Prepare different kinds of test and understand the comprehensive evaluation.
- 9. Participate and organize the different co-curricular activities in mathematics.
- 10. Understand the professional competencies, commitments and expectations of mathematics teacher.

CONTENT

Unit 1: Meaning, Nature and Scope of Mathematics

- 1.1 Meaning of Mathematics
 - 1.1.1. As a Science of Number
 - 1.1.2. As a Science of Quantity
 - 1.1.3. As a Science of Measurement
 - 1.1.4. As a Science of Logical reasoning
- 1.2 Nature of Mathematics

- 1.3 Scope of Mathematics
 - 1.2.1 Place of Mathematics in day today life activities
 - 1.2.2 Mathematics use in day to day life activities
 - 1.2.3 Relation with School subjects
 - 1.2.4 Relation with other Disciplines Engineering, Agriculture, Medicine

Unit 2: Aims and Objectives of Teaching Mathematics

- 2.1 Aims/Values of Teaching Mathematics
 - 2.1.1 Meaning of Aim/Values
 - 2.1.2 Utilitarian Aim/Values
 - 2.1.3 Disciplinary Aim/Values
 - 2.1.4 Cultural Aim/Values
 - 2.1.5 Intellectual Aim/Values
 - 2.1.6 Aesthetic and Recreational Aim/Values
- 2.2 Instructional objectives of Teaching Mathematics
 - 2.2.1 Meaning of Instructional Objectives
 - 2.2.2 Instructional Objectives and there specifications of teaching mathematics
 - 2.2.3 Knowledge
 - 2.2.4 Understanding
 - 2.2.5 Application
 - 2.2.6 Skill
 - 2.2.7 Attitude
 - 2.2.8 Appreciation
 - 2.2.9 Interest
 - 2.2.10 Formulation and Statement of objectives in behavioural terms

Unit 3: Instructional Design in Mathematics and C0-curricular Activities in Mathematics :

- 3.1 Lesson Planning: Meaning ,Steps , Importance and Format of Lesson Plan
- 3.2 Unit Plan-Meaning ,Steps , Importance and Format of Lesson Plan
- 3.3 Resource Unit-Meaning, Steps, Importance and Format of Lesson Plan
- 3.4 Yearly Planning-Meaning, Principles and Format

- 3.5 Mathematics Club: Objectives of Maths club, organisation and activities
- 3.6 Mathematics Olympiads : objectives and importance
- 3.7 Mathematics Quiz : Organisation and importance
- 3.8 Mathematics Museum : Organisation and importance
- 3.9 Mathematics Fair : Organisation and importance
- 3.10 Mathematics Laboratory : Objective, importance and uses
- 3.11 Recreational activities in mathematics : Games, Puzzles, Riddles, etc.,
- 3.12 Ethno Mathematics

Unit 4: Approaches, Methods and Techniques of Teaching Mathematics

4.1 Learner Centered Approach

- 4.1.1 Inductive method and Deductive method
- 4.1.2 Analytical method and Synthetic method

4.2 Activity Centered Approach

- 4.2.1 Guided discovery method and Problem Solving Method
- 4.2.2 Project Method and Discovery Learning Method
- 4.2.3 Active Learning Strategies
- 4.2.4 CAI in Teaching Mathematics
- 4.1 Concept Mapping-Meaning, Advantages and Disadvantages
- 4.4 Techniques of teaching Mathematics
 - 4.4.1 Supervised study
 - 4.4.2 Oral work and written work
 - 4.4.3 Drill and Review
 - 4.4.4 Assignment in Maths
 - 4.4.5 Home work

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CC 2. Pedagogy of a School Subject – Part 1

Biological Science

Max. Marks: 75 Min. Marks: 27

Objectives: - On completion of the course the student teacher will be able to :

- Understand the nature, scope & importance of Biological Sciences and get acquainted with ancient as well as modern developments in the field of Bio-Sciences.
- 2. Understand the Aims, Objectives of teaching Bio-Science and will be able to state the objectives in behavioral terms
- 3. Acquaint with the Resources for teaching Biology & their effective Utilization.
- 4. Get exposed to Micro teaching and preparing Resource Unit, Unit Plan & Lesson Plans.
- 5. Understand the concept of curriculum, principles of curriculum construction and trends curriculum revision
- 6. Be introduced to various methods, approaches & models of teaching Biological Science and implement them in their teaching practice.
- 7. Understand and prepare the different types of test items for the Evaluation of students performance in Biology.
- 8. Appreciate and inculcate the Competencies and commitments needed for a biological Science Teacher.
- 9. Plan & execute various curricular & co-curricular activities related to teaching of Bio-Science

CONTENT

Unit 1:1.1 Introduction to Teaching Biological Science

- 1.1.1 Biological Science: Meaning, Nature and Scope
- 1.1.2 Relationship between Biology & human welfare

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1.1.3 Latest developments in the field of Biology

1.2 Co-curricular Activities and Resources in Teaching Biological Science

- 1.2.1 Bio Science laboratory Need and importance, equipping, Bio-lab, Organizing the practical Work
- 1.2.2 Project Activities: Aquarium, Viverium, Terrariums, Museum, School garden,
- 1.2.3 Preservation of specimen through plastination-Meaning, Importance and Steps.
- 1.2.4 Meaning, importance and Organization of Co-Curricular Activities
- 1.2.5 Bio-Science Club organisation & its activities
- 1.2.6 Bio Science Exhibition
- 1.2.7 Field trips
- 1.2.8 Bio-Science Quiz
- 1.2.9 Nature Study
- 1.2.10 Bird watching
- 1.2.11 Collection & Preservation of Specimens-Plants and Animals

Unit 2: Aims and Objectives

- 2.1 2.1.1 Utilitarian, Cultural and Disciplinary AimsScientific Attitude and Training in Scientific Method
- 2.2 Instructional Objectives:
 - Bio Science in Secondary schools:
 - 2.2.1 As per NCERT Curriculum Framework-2000
 - 2.2.2 As per NCTE Curriculum Framework
 - 2.2.3 As per National Curriculum Framework-2009
- 2.3 Behavior Specifications of Instructional Objectives:
 - 2.3.1 Knowledge
 - 2.3.2 Understanding
 - 2.3.3 Application
 - 2.3.4 Skill

Unit 3: Approaches, Methods and Models of Teaching Biology

- 3.1 Approaches:
 - 3.1.1 Structure and function Approach
 - 3.1.2 Types specimen Approach
 - 3.1.3 Inductive and Deductive Approach
- 3.2 Methods of Teaching
 - 3.2.1 Guided Discovery Method
- 3.3 Models of Teaching:
 - 3.3.1 Biological Science Enquiry Model (Joseph Schwab)
 - 3.3.2 Memory Model (J. Lucas)

Unit 4: Instruction Design in Teaching Biological Science.

- 4.1 Pedagogical Analysis: Analysis of 8th, 9th and 10th Standard Biology Text book of Karnataka State
- 4.2 Lesson Planning- Meaning, Importance and format according to active learning strategies.
- 4.3 Unit Plan Meaning, importance and steps
- 4.4 Resource Unit Meaning, importance and components.

Assignments (any one)

- 1. Preparing power point slides for any selected unit in VIII or IX class Biology.
- 2. Preparing a set of (OHP) transparencies
- 3. Slides for a selected Unit in 10th Std. Biology.

Practicum:

- 1. Writing of Instructional objectives & behavioral specifications on a selected Unit.
- 2. Preparing improvised apparatus in Biology
- Preparing a lesson Plan on any topic in Biology using any innovative Method / Model of Teaching
- 4. Developing an Achievement test / Diagnostic test

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CC 4. Language across the curriculum – Part 2

Max. Marks: 35

Min. Marks: 12

Objectives

- It is also intended that the student teachers will develop a taste for and abilities in reading and making meaning of different kinds of texts.
- They will also learn to engage with ideas and appreciate that different kinds of writing are used to communicate these ideas in different contexts.
- Overall, areas of language proficiency which are emphasised are those that will lay a foundation for their becoming self-learners, reflective and expressive teachers, and collaborative professionals.

UNIT 1: ENGAGING WITH SUBJECT-RELATED REFERENCE BOOKS

For this Unit, the student-teachers should work in groups divided according to their subjects. Within these groups, pairs of student-teachers would make a choice of a specific topic in their subject area which they could research from a set of available reference books. The focus of this Unit is, as much the learning of effective processes of reference research and its presentation, as the actual reading of the reference books themselves.

Sequence of Activities

- Selecting the topic for research and articulating some guiding questions
- Searching and locating relevant reference books (could be from a school library or the institute library)
- Scanning, skimming and extracting relevant information from the books by making notes

- Collating notes and organising information under various subheadings
- Planning a presentation with display and oral components
- Making presentations to whole subject group, fielding questions.

UNIT 2: ENGAGING WITH EDUCATIONAL WRITING

Selected texts could be drawn from the wide range of popular educational writing in the form of well-written essays, extracts or chapters from authors who deal with themes from education, schooling, teaching or learning. The writings selected should present a definite point of view or argument about some aspects of the above themes. Student-teachers can be grouped randomly for this Unit.

Suggested Activities

- Reading for discerning the theme(s) and argument of the essay (guided reading- individually or in pairs)
- Analysing the structure of the argument—identifying main ideas, understanding topic sentences of paragraphs, supporting ideas and examples, terms used as connectors and transitions (guided small group discussion)
- Discussion of the theme, sharing responses and point(s) of view (small group discussion)
- Writing a response paper (individually or in pairs)
- Presentations of selected papers, questions and answers (large group)

EPC 2: DRAMA AND ART IN EDUCATION

Max. Marks: 30 Min. Marks: 11

Introduction

The need to integrate arts education in the formal schooling of our students is to retain our unique cultural identity in all its diversity and richness and encourage young students and creative minds to do the arts. An understanding of the arts will give our youth the ability to appreciate the richness and variety of artistic traditions as well as make them liberal, creative thinkers and good citizens of the Nation. Keeping in view some of these ideas, the National Curriculum Framework-2005, introduced arts education as a mainstream curricular area, which must be taught in every school as a compulsory subject (up to Class X) and facilities for the same may be provided in every school. Keeping this in view, it is all the more important that arts education is integrated in the school curriculum to provide an aesthetically viable atmosphere in schools encouraging creativity. For this, not only Art teachers but every teacher in the school system should be sensitized to understand and experience the use of Arts for holistic development of the learner, as a teacher as well as an individual.

OBJECTIVES

• Understanding basics of different Art forms – impact of Art forms on the human mind

• Enhance artistic and aesthetic sensibility among learners to enable them to respond to the beauty in different Art forms, through genuine exploration, experience and

free expression

• Enhance skills for integrating different Art forms across school curriculum at

secondary level

• Enhance awareness of the rich cultural heritage, artists and artisans.

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COURSE CONTENT

UNIT 1: VISUAL ARTS AND CRAFTS (PRACTICAL)

- Experimentation with different materials of Visual Art, such as pastel, poster, pen and ink, rangoli materials, clay, etc.
- Exploration and experimentation with different methods of Visual Arts like Painting, block printing, collage, clay modelling, paper cutting and folding, etc.
- Paper framing and display of Art works.

UNIT 2: PERFORMING ARTS: DANCE, MUSIC, THEATRE AND PUPPETRY (PRACTICAL)

- Listening/viewing and exploring Regional Art forms of music, dance, theatre and puppetry.
- Viewing/listening to live and recorded performances of Classical and Regional Art forms
- Participation and performance in any one of the Regional Arts forms keeping in mind the integrated approach
- Planning a stage-setting for a performance/presentation by the student-teacher.

UNIT 3: APPRECIATION OF ARTS

- Meaning and concepts of Arts and aesthetics and its significance at secondary level of school education
- What is the difference between Education in Arts and Arts in Education
- Identification of different performing Art forms and artists; dance, music and musical instrument, theatre, puppetry, etc. (based on a set of slides, selected for the purpose)
- Knowledge of Indian Craft Traditions and its relevance in education (based on a set of slides, selected for the purpose)
- Knowledge of Indian Contemporary Arts and Artists; Visual Arts (based on a set of slides, selected for the purpose)
- Indian festivals and its artistic significance.

Project Work (Units 1 and 2)

Theme-based projects from any one of the curricular areas covering its social, economic, cultural and scientific aspects integrating various Arts and Craft forms; Textbook analysis to find scope to integrate Art forms either in the text or activities or exercises; Documentation of the processes of any one Art or Craft form with the pedagogical basis such as weaving or printing of textiles, making of musical instruments, folk performances in the community, etc.—how the artist design their products, manage their resources, including raw materials, its marketing, problems they face, to make them aware of these aspects of historical, social, economic, scientific and environmental concerns. Student-teacher should prepare at least ten lesson plans in their respective streams of subjects (Science/Maths/Social Sciences/Languages etc.) while integrating different art forms.

Workshop

Two workshops of half a day each, of one week duration for working with artists/artisans to learn basics of Arts and Crafts and understand its pedagogical significance. The Arts forms learnt during the course should be relevant to the student-teachers in their profession. Activities, such as drawing, and painting, rangoli, clay modelling, pottery, mixed collage, woodcraft, toy making, theatre, puppetry, dance, music, etc. region specific should be given more importance for making arts learner-centred. The focus of the workshops should be on how art forms can be used as tool/ method of teaching-learning of Languages, Social Sciences, Mathematics and Sciences.

PRACTICAL PART

- 1. **BODY MOVEMENT-**Different theatre games, Exercises, Martial Arts, Folk Dances.
- 2. **MEDITATION-** Focus, Concentration.
- 3. **SCRIPT WRITING-**characterization, dialogue, time and space, beginning, middle, end
- 4. **POETRY RECITATION** Rigved Mantras, Vaachik Abhinay.
- 5. SELECTION OF PLAY FOR CHILDREN.
- 6. CASTING.
- 7. **BUILDING OF A CHARACTER.**
- 8. **PARTS OF SPEECH-** Volume, Pitch, Speed, clarity, Audibility, Diction, Intonation, Feel and Toner Quality, Projection.

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9. **DESIGN OF A PRODUCTION.**

10. **PRODUCTION-** Poster Making, Audience, Execution of Different Aspects of Production, Analysis of Increase in Understanding of Children through Drama.

Suggested Approach for Teaching-learning Process

Every student-teacher must participate and practice different Art forms. They need to be encouraged to visit places of arts/see performances/ exhibitions/art and craft fairs/local craft bazaars, etc. Artists and artisans may be invited for demonstrations and interactions from the community. Student-teachers should be encouraged to maintain their diary on art interactions to enhance their knowledge and awareness in this area. Student-teachers can also be motivated to interpret art works/ commercials/events etc. to enhance their aesthetics sensibility.

A Resource Centre for Arts and Crafts should be a part of all the RIEs, where materials, including books, CDs, audio and video cassettes, films, software, props, art works of Regional and National level, books and journals must be displayed for the purpose of reference and continuous motivation.

Applications of Arts and Aesthetics in day-to-day life, in the institute and in the community are some of the practical aspects, which needs to be taken care too. Student-teachers must organise and participate in the celebrations of festivals, functions, special days, etc.

Modes of Assessment

The complete course is of 50 marks. It is recommended that evaluation of this course should be done at both the levels; (i) Internal as well as (ii) External. Practical Activities (Units 1 and 2 of 30 marks) in nature are more on the process than the product, hence need continuous and comprehensive evaluation (CCE). Therefore, recommended to be evaluated by the internals. The theory and project part (Unit 3 and Project work of 20 marks) can be in viva-voce and in presentation mode therefore recommended to be evaluated by the externals. The engagement of student-teacher in the above set of experiences should be evaluated on continuous and comprehensive manner, based on (a) submission of work/project; (b) participation in the activities; (c) creative potential displayed; (d) application of aesthetic sensibility in campus events and in other course activities.