

Structure of Two-year B.Ed. Program (Revised Yearly Program From 2020-22)

Faculty name: Education,

Program Name: Bachelor of Education (B. Ed.)

(Two Years, Yearly Program W.E. From batch 2020-22)

First Year

Course Code	Course No	Title of the Courses	Total Hours	Cr	Internal	External	Total Marks
Perspectives in Education							
1001	1	Childhood and Growing Up	60	4	25	75	100
1002	2	Contemporary India and Education	60	4	25	75	100
1003	3	Critical understanding of ICT	60	4	25	75	100
1004	4.	Learning and Teaching	60	4	25	75	100
1005	5.	Language across curriculum	60	4	25	75	100
Pedagogic Studies							
6:Subject Education I			60	4	25	75	100
1101	6:1	English Language Education					
1102	6:2	Gujarati Language Education					
1103	6:3	Hindi Language Education					
1104	6:4	Marathi Language Education					
1105	6:5	Sanskrit Language Education					
1106	6:6	Urdu Language Education					
1107	6:7	Mathematics Education					
1108	6:8	Commerce Education					
7: Subject Education II			60	4	25	75	100
1109	7:1	Book Keeping and Accountancy Education					
1110	7:2	Economics Education					
1111	7:3	Geography Education					
1112	7:4	History Education					
1113	7:5	Social Science Education					
1114	7:6	Science and Technology Education					
1115	7:7	Music Education					

Course Code	Course No	Title of the Courses	Total Hours	Cr	Internal	External	Total Marks
Enhancing Professional Capacities							
1301	EPC1	Skill Development Program I. Micro-teaching II. Integration Lesson	60	2	25 25		50
1302	EPC2	Teaching -learning Competency I. Reading and Reflecting on Texts II. Preparation for constructivist teaching-learning	60	2	25 25		50
1303	EPC3	Learning to use computer	60	2	50	-	50
1304	EPC 4	Understanding the Self	60	2	50	-	50
1305	EPC 5	Drama and Art in Education	60	2	50	-	50
Engagement with Field							
1401	EFW 1	Practice Teaching (4 Lessons)	60	2	50	- -	50
TOTAL (Theory +Practical)			780	40	475	525	1000

List of Subject Education Courses

Course Code	Subject Education: Group-I	Course Code	Subject Education Group-II
1101	English Language Education	1109	Book Keeping and Accountancy Education
1102	Gujarati Language Education	1110	Economics Education
1103	Hindi Language Education	1111	Geography Education
1104	Marathi Language Education	1112	History Education
1105	Sanskrit Language Education	1113	Social Science Education
1106	Urdu Language Education	1114	Science and Technology Education
1107	Mathematics Education	1115	Music Education
1108	Commerce Education		

The students have choice of only one Method from each group.

The definitions of the key terms used in the credit-based System introduced from the academic year 2015-16 are as under:

B.Ed. Program:

B.Ed. Program is a set of twelve theory courses and practical work that are linked together meaningfully aiming at achieving excellence and competence in pedagogic practices and enabling the student teacher to become an efficient and effective school teacher. The said program will end in awarding a degree '**Bachelor of Education**'.

Course:

A course is a constituent of a 'program' and may be conceived of as a composite of modules which include academic content of various subjects. The content included in courses have academic coherence and it fulfils the objectives of the program.

Credit Point:

Credit point refers to the total work expected to be done by learner and an index of the number of learning hours. These learning hours include variety of learning activities like preparatory lessons, school lessons, internship, preparation of learning material, case study, action research, reading, reflecting, discussing, attending lectures / counselling sessions, writing assignments, preparing for examinations, etc. Each theory course consists of four credits wherein one credit is construed as corresponding to 15 hours for theory and 30 hours for practical.

Perspectives in Education

Course 1: Childhood and Growing Up

Total Credits: 4; **Marks:** 100; **Hours:** 60 for theory excluding hours to be spent by student teachers for completing assignments

Note : Figures in the bracket show hours for curriculum transaction

Module 1: Learner as a Developing Individual (Credit 1, Hours 15, Marks 25)

Objectives : After learning this module the student teacher will be able to-

- explain concept and stages of growth and development
- bring out relationship between development and environmental factors
- elaborate developmentally appropriate learning opportunities based on brain research
- explain relationship of development with learning
- organize activities according to different roles of learner

Contents:

1. Concept of growth and development and principles of development(2 periods)
2. Growth and development across various stages from infancy to post adolescence (Special emphasis on concerns of later childhood and adolescence) (2 periods)
3. Developmental Influences: Development as a resultant of interactions between individual potential (innate, acquired) and external environment (physical, socio-cultural, ecological, economic and technological). Nature and nurture, growth and maturation.(3 periods)
4. Growth and development of brain and its lifelong impact:
 - Brain development and language development
 - Functions of brain
 - Windows of opportunities
 - Left brain and right brain functions
 - Concept of 'developmentally appropriate' learning opportunities, getting education for appropriate parenting. Guidelines provided by neuroscience with respect to designing and developing appropriate learning environment. (4)
5. Relationship between development and learning, Viewing different roles of learners and organization of classroom activities accordingly- Learner as Imitator, Knower, Thinker, knowledge worker, Performer, Implications for teachers to develop holistic understanding of the learner (4)

Module 2: Dimensions of development (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- explain physical, social, cognitive and moral development during later childhood and adolescence.
- explain views of Piaget, Vygotsky on cognitive development

- compare development during psychosocial stages given by Erickson
- explain views of Kohlberg on moral development
- organize appropriate programs for development during later childhood and adolescence

Contents:

1. Physical and motor development during later childhood and adolescence, Caring for physical growth and development of a learner: Need of making provision for nutritious food, medical checkup for identifying health problems, ergonomically suitable sitting/ working arrangement, provision for physical (musical) exercise, Yoga, group and individual games and sports; Organizing activities that give scope for ensuring development of capacities of sense and work organs; Providing adolescence education (sex education) (4)
2. Social and emotional development during later childhood and adolescence: Emotional and social intelligence and role of a school in organizing appropriate learning programs (Emphasis to be given on educational implications rather than the theories) (4)
3. Erickson's psychosocial stages of development during later childhood and adolescence - description of stages and role of a school in organizing appropriate learning programs (2)
4. Cognitive development- Piaget's and Vygotsky's views with respect to development of language and problem solving skills, educational implications of their views (3)
5. Characteristics of stages of moral development as interpreted by Kohlberg (2)

Module 3: Catering to the differences in development (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to -

- explain individual differences within and among the learners
- relate socio-cultural characteristics with individual differences
- cater to individual differences regarding multiple intelligences and emotional intelligence
- design educational experiences for differently able learners

Contents:

1. Individual differences: concept, Individual differences within and among the learners (2)
2. Educational implications of Socio-cultural characteristics: Home environment (socio economic status, type of family, learning environment in home), Gender (natural differences due to gender, effect of gender bias on learning and personality development), Language (Effect of heterogeneity of language on classroom interactions, effect of mother tongue on learning), Ethnic background (3)
3. Individual differences regarding intelligences (Multiple intelligence view of Gardner), Brief introduction to: Guilford's view, Emotional intelligence and Catering to children's intelligences through educational experiences (3)
4. learning styles(Audio, Visual and kinesthetic), and their relation with learning; role of school for catering to different learning styles (1)
5. Understanding differently able learners: physically challenged, slow learners and dyslexic learners, hearing impaired, visually impaired, gifted and creative learners. Role of school and teacher for catering to individual needs in inclusive set up (6)

Module 4: Learner characteristics and roles related to Learning (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to -

- design learning experiences for development of personality
- explain concept of adjustment and causes of maladjustment
- suggest ways to help learners with problems of adjustment
- explain implications of various learner characteristics affecting learning

Contents:

1. Concept of personality, Self-concept of learner, Development of personality, self-concept and leadership qualities of learner through various classroom activities and co-curricular programs. (4)
2. Concept and of adjustment, Causes of maladjustment, Problems of adjustment in adolescents and role of school, and teachers in helping the students facing following problems-Anxiety, withdrawal, aggression, delinquency, drug addition, failure and low achievement (3)
3. Learner's characteristics affecting learning and their implications to teaching
Psychological characteristics: Maturation, Attention, Interest, Motivation (Maslow's hierarchy of needs, achievement motivation), Aptitude (8)

Assignments (25 marks)

1. Conducting case study of one learner and writing a report (Marks 15)
2. Conducting survey on two adolescent girls from different social strata or one girl and one boy in same social strata and writing report how gender, caste and social class may impact the development, personality and learning of adolescent. (Marks 10)

Guidelines for assignments Case Study of one learner:

- One student is to be selected consulting school teacher/ parent. The student teachers may select any child having impairment / child having learning difficulty/ child having / behavioural problem/ gifted child/ under achiever
- Child should be studied from sociological, psychological and academic point of view.
- Following sources may be used for collecting information- Achievement record, Home visit, and detailed interview of the child, and administration of simple tools such as a questionnaire assessing learning environment in home, learning difficulties, interest, motivation, and adjustment problems etc.
- Report should include the complete profile of the child, strengths, likes dislikes, weaknesses, problems, analysis of possible causes and remedies suggested.

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- De Jong (2009), “Explorations in Learning and Brain”; Germany : Springer
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- Larochele (2009), “Constructivism and Education”; UK :Cambridge
- Macnill (2008), “Learning with the Brain in Mind”: UK: Sage
- Scannel (2009), “The Big book of Brain building Games”; USA: McGraw Hill
- Smilkstein (2011), “We’re Born to Learn”; USA: Corwin
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- जगताप ह.ना. (संपादक)(१९९६) शैक्षणिक मानसशास्त्र अनमोल प्रकाशन पुणे .
- जनई माळी तटसरे चौजे (१९८८) वैकासिक मानसशास्त्र फडके प्रकाशन कोल्हापूर .
- दांडेकर वा. ना. (२०१५) ” शैक्षणिक व प्रायोगिक मानसशास्त्र” नरेन्द्र प्रकाशन पुणे
- नातू अदिती वाळिंबे प्रेरणा (२००७) ” मॅट्रू संशोधन व बालशिक्षण” बालशिक्षण संशोधन विकास केंद्र पुणे .
- पानसे रमेश (२००७) ” बहुविध बुद्धिमत्तांचा विचार” बालशिक्षण संशोधन विकास केंद्र पुणे .
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- पाध्ये सुषमा(२००३) ” व्यागोट्स्कीचा सामाजिक सिद्धांत” बालशिक्षण संशोधन विकास केंद्र पुणे .
- पारसनीस न.रा. (२००९) प्रगत शैक्षणिक मानसशास्त्र नुतन प्रकाशन पुणे - ३० .
- बो डे कुमठेकर देसाई गोळविलकर (१९९०) वैकासिक मानसशास्त्र पुणे विद्यार्थी गृह प्रकाशन पुणे .

Course 2 Contemporary India and Education

Total Credits: 4; Marks: 100; Hours: 60 for theory excluding hours to be spent by student teachers for completing assignments

Note: Figures in the bracket show hours for curriculum transaction

Module 1: Implementing System of Education to reform Society (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to -

- comprehend the clear picture of present Indian society
- understand the current problems in Indian Society.
- understand and express the role of a teacher and education in the social reformation.
- understand the importance of social values and their inculcation through education

Content

1. Nature of present Indian Society—multi-religious, multilingual, multicultural, rural, urban(2)
2. Current issues and problems in Indian Society – Illiteracy, Population, Superstition, Communal disharmony, Injustice and violence to women, Gender disparity, Dowry system, Female feticide.(4)
3. Teacher as an agent of social change.(1)
4. Educating children for civic responsibility(1)
5. Inculcation of social values: Communal harmony, Religious tolerance, Linguistic tolerance, Cultural tolerance, Co-operation, Mutual understanding.(4)
6. Inculcating awareness of Social manners, Environment protection, Sustainable development, Water literacy, Life skills(3)

Module 2: Understanding System of Education with Philosophical Perspectives (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to -

- understand the basic concept of education and its process
 - think critically regarding the aspects of education as a system and their interrelationship
 - think and express the philosophical perspectives of education
 - understand the role philosophy in realizing the goals and objectives of education.
 - understand the thoughts of educational thinkers
 - develop one's own philosophical approach regarding education
1. Concept of Education(1)
 2. Various definitions of education-Eastern, Western, Ancient and Modern (2)
 3. Aims and objectives of education - Individual and Social aims. (1)
 4. Role of philosophy in determining aims and objectives of education.(2)
 5. Interrelation between education and philosophical views (2)
 6. Vision of Education: Four Indian Thinkers (7)

An overview of salient features of the 'philosophy and practice' of education Advocated by the following thinkers:

- Rabindranath Tagore: Liberationist pedagogy
- M.K.Gandhi: Basic education or education for self-sufficiency
- Aurobindo Ghosh: Integral education
- J.Krishnamurthi: Education for individual and social transformation.

Module 3: Understanding System of Education with Social Perspectives(Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to -

- understand different concepts from educational sociology
- understand the relevance of democracy with education
- comprehend the importance of national integration and international understanding
- understand the idea of multiculturalism and its significance in education
- understand the importance of the goals of education as incorporated in Indian constitution

Content

1. Role of education in socialization of child (1)
2. Meaning and significance of democracy (2)
 - 2.1 Democratic values- Equality, Brotherhood, Common welfare, Justice
 - 2.2 Democracy and education
3. Concepts of Freedom and Discipline (1)
4. Concept of social stratification (2)
 - 4.1 Education and its impact on social stratification
 - 4.2 Education and social mobility
5. Concepts of National Integration and Barriers to National Integration (1)
6. Concept of International Understanding and Education as an effective agency of International Understanding (1)
7. Educations and Multiculturalism (1)
8. Concept of Localisation- Privatisation – Globalisation and their relevance with education(2)
9. Four Pillars of Education in Dellar’s Commission (2)
10. Learning to know, Learning to do, Learning to live together, Learning to be Dr.Mashelkar’s Panchsheel of new age(2)
11. Knowledge centered society, Child centered education, Woman centered family, Human centered development, and Innovation centered India. Goals of education and related recommendations as incorporated in Indian Constitution.(1)

Module 4: Contemporary Indian Schooling: Concerns and Issues (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to -

- understand the role of Universalization of School Education
- understand the Idea of 'common school' system
- understand Equality of Educational Opportunity
- understand the differential quality in schooling: Variations in school quality
- understand the Right to Education Bill

Content

1. Universalization of School Education (5)

Right to Education and Universal Access:

- (i) Issues of a) Universal enrolment b) Universal retention c) Universal success
- (ii) Issues of quality and equity.

The above to be discussed with specific reference to physical, Economic, social and cultural access, particularly to girl child and Weaker sections as well as differently-abled children

2. Equality of Educational Opportunity :(4)

- Meaning of equality and constitutional provisions
- Prevailing nature and forms of inequality, including dominant and minor groups and related issues
- Inequality in schooling: Public-private schools, rural-urban Schools, single teachers' schools and many other forms of Inequalities in school systems and the processes leading to disparities
- Differential quality in schooling: Variations in school quality

3. Idea of 'common school' system (2)

4. Right to Education Act and its provisions.(2)

5. Sarva Shiksha Abhiyan (2)

Assignments (25 marks)

1. Writing an essay on educational thoughts and work of any educational thinker in India (Apart from those mentioned in syllabus) or abroad and relevance of the thoughts in today's Indian education (Marks 10)
2. Collecting information with the help of a questionnaire, from at least 10 persons and preparing a report on any one of the following problems in Indian Society and suggesting remedies: Illiteracy, Population explosion, Superstition, Communal disharmony, Injustice and violence to women, Gender inequality, Dowry system, Female foeticide (Marks 15)

References

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- Agarwal J.C. ‘Teacher and Education in a Developing Society‘
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- Singh M.M. (Ed.) (1975) _The Constitution of India‘

Course 3 Critical Understanding of ICT

100 marks, 4 credits, Hours: 60 for theory excluding hours to be spent by student teachers for completing assignments

Note: Figures in the bracket show hours for curriculum transaction

Objectives: The student teacher will be able to-

- describe the changing pattern of education due to ICT.
- explain the challenges in integrating ICT in school education
- explain the software and its uses in Education
- apply the ICT strategies in Teaching Learning process

Module 1: Understanding and Executing ICT Education (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- explain the Technological revolution & its impact on society.
- state the development of Educational technology.
- elaborate the concept, importance, meaning & nature of ICT.
- explain the Need of Information & Communication Technology.
- describe the changing pattern of education due to ICT.
- explain the challenges in integrating ICT in school education.
- use of the online facilities available for Communication

Content

1. Technological Revolution & its impact on society(1)
2. Development of Educational technology & shift from teacher centered to learner centered Education (2).
3. Concept, Importance, Meaning & Nature of Information & Communication Technology (2)
4. Need of Information & Communication Technology in Education (1)
5. Scope of ICT in Education: a) Teaching Learning Process b) Publications c) Evaluation d) Research e) Administration (3)
6. Challenges in integrating Information & Communication Technology in school education. (2)
7. Facilities available for Communication - E-mail, chat, online Audio-video conferencing, e-Library, websites. Google Applications (such as Google doc, Google Drive, map, alert, talk, translate, image, groups, calendar, drive) (4)

Module - 2: Understanding ICT in Education (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to

- explain the meaning and characteristics of Computer.
- operate various hardware devices.
- explain the software and its uses in Education.

Content:

1. Computer - Definition ,Characteristics & Types of Computer – Speed, Storage, Accuracy, Versatile, Automation, Diligence (3)
2. Hardware and uses.-(6)
 - Input devices - Key Board, Mouse, Scanner, Microphone, Digital camera.
 - Output devices - Monitor, Printer, Speaker, Screen image projector
 - Storage devices - Hard Disk, CD & DVD, Mass Storage Device (Pen drive)
 - ICT Tools-Touch screen, Personal Digital Assistants (PDA),Bar Code Readers, LCD Projectors, Game Pads and Joy Sticks.
3. Software's and its uses in Education. (6)
 - Operating System - Concept and function.
 - Application Software
 - Word Processors
 - Presentation software
 - Data management -Spread sheet
 - Content access software –Media Player,
 - Media development software-Image Editing Software

Module 3: Applying ICT to Enhance Teaching Learning Process & Evaluation (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to -

- analyze the teaching-learning as a communication process.
- apply the ICT strategies in Teaching Learning process.
- use of ICT in Teaching Learning
- explain the concept, need & uses of internet and intranet
- explain the advantage and disadvantage of social networking

Content

1. Viewing teaching-learning as a communication process. (4)
 - Development of communication skills & ICT skills (Information acquisition and information dissemination skills) to enhance learning
 - On demand examination, online examination.
2. Use of ICT in Teaching Learning – (6)
 - CAL - Computer Assisted Learning
 - Virtual Classroom through EDUSAT
 - M learning (ML)
 - Learning through: Educational Websites, e-books, Teacher Tubes & You Tubes.
3. Concept, need & uses of internet (1)
 - Search Engines - Concept and uses. (1)
 - Learning through: Blogs, Tweepers, WhatsApp , Teacher Tub & Face Book. Advantage and disadvantage of Social Networking like Face Book, Tweepers. (3)

Module 4: ICT & Changing Roles of Teacher (15) (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- explain the role of teacher and student in teaching, evaluation, educational management, Classroom Environment & Infrastructure
- comply with the changing role of teacher due to ICT

Content

1. Paradigm shift in Education due to ICT content, with special reference to Curriculum, Role of Teacher, Role of student ,Methods of Teaching, Classroom Environment & Infrastructure , Evaluation procedure, Educational management.(4)
2. Role of teacher in following (11)
 - Cyber Law, Morals & Ethical issues - copyright, Plagiarism, Hacking, (1)
 - Computer Technology and Security- Computer Viruses, Theft of Information(1)
 - Student safety on the Net. (1)
 - Facilitator of learning, (1)
 - e-content developer, (1)
 - e-tutor (1)
 - Manager of learning activities, (1)
 - Mediator between learner & web resources (1)
 - Evaluator (1)
 - Researcher (2)

Assignments (Marks 25)

1. With the use of online survey tool (Survey Monkey,Online Forms by Google,Kwik Surveys) collect information about an educational problem and write a report.(15 Marks)
2. Visit Educational web sites, online videos and writing comment on usefulness related to a topic of interest and send comments by email to teacher educator and team leader student teacher. (10 Marks)

References

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Websites

1. <http://3eeducation.org/3e-framework/dated/23/07/2015>
2. https://en.wikipedia.org/wiki/ADDIE_Model
3. <http://www.instructionaldesign.org/models/addie.html>
4. https://en.wikipedia.org/wiki/Application_software#Educational_software
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6. <http://www.quora.com/What-are-some-free-online-education-resources>

Course 4 Learning and Teaching

Marks: 100, Credits: 4, Hours: 60 for theory excluding hours to be spent by student teachers for completing assignments

Note: Figures in the bracket show hours for curriculum transaction

Module 1: Concept of learning and Teaching (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to -

- explain concept of learning
- explain types of knowledge and processes of knowing
- elaborate stages of teaching
- develop insight into various roles of a teacher

Contents

1. Concept of learning: Meaning and process of learning, Distinctions between learning as 'construction of knowledge' and learning as 'transmission and reception of knowledge'.(3)
2. Types of knowledge: factual, conceptual, procedural, meta-cognitive (2)
3. Processes of knowing: remembering, comprehending, analyzing, evaluating, creating(2)
4. Process of creating knowledge representations as a means of communication, Ways/ modes of representing knowledge, concept mapping, designing diagrams such as: classification, hierarchy, structural charts, models, simulations.(3)
5. Concept of teaching: Various definitions of teaching, teaching as complex activity , pre-active, interactive and post active stages of teaching (3)
6. Role of teacher in teaching-learning situations: a) transmitter of knowledge, b) model, c) facilitator, d) negotiator, e) co-learner (2)

Module 2: Various views on human learning (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to -

- compare various views on human learning
- consider various roles of learner and teacher for planning of various learning situations

Contents

1. Views on human learning with reference to (i) Concepts and principles of each view and their applicability in different learning situations (ii) Relevance and applicability of various theories of learning for different kinds of learning situations(iii) Role of learner and teacher in various learning situations (15)
 - Behaviourist (conditioning by Pavlov and Skinner in brief),
 - Cognitivist (views of Bruner and Ausubel)

- Information-processing view(Atkinson Shifrin)
- Humanist(Carl Rogers)
- Social-constructivist (Views of Piaget and Lev Vygotski)

Module 3: Various ways to facilitate learning (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- elaborate principles of constructivist and cooperative learning-teaching
- assisting learners to think inductively
- assisting learners to attainment concepts
- assisting learners to organize/ structure information logically
- assisting learners to empathize with others
- use simulations and games
- promote learning in groups

Contents

1. Meaning and principles of constructivist and cooperative learning-teaching(4)
2. Assisting learners to think inductively based on Hilda Taba's approach to knowledge construction. (2)
3. Assisting learners to attainment concepts based on Jerom Bruner's approach to knowledge construction(2)
4. Assisting learners to organize/ structure information logically using principles given by David Ausubels approach to meaningful verbal learning and knowledge construction (2).
5. Assisting learners to empathize with others using role play(1)
6. Using simulations and games(1)
7. Promoting learning in groups through cooperative learning strategies such as group discussions, pair and share, role play, games, group projects(3)

Module 4: Designing teaching to develop higher mental processes (Credit 1, Hours 15, Marks 25)

Objectives: The student teacher will be able to-

- facilitate information processing.
- organize learning experiences to develop reasoning and problem solving
- develop self learning skills
- plan for developing Creative thinking
- apply psychological principles for obtaining positive transfer of learning

Contents

1. Viewing learning as an information processing model of memory with respect to deep and surface learning. (Atkinson-Shiffrin approach) Environmental stimulation, attention and focusing, registration, perception and STM, coding and encoding, LTM, retrieval and rehearsing and meta cognition. Role of teacher in facilitating memorizing (3)
2. Developing logical thinking and Reasoning (2)



3. Developing self learning skills (2)
4. Developing Problem solving through Problem based/ project based/ case based/ learning (2)
5. Developing Creative thinking: Meaning and nature of creativity; factors of creativity; Development of creativity through use of brain storming as given by Osborn, question checklist, Synectics technique by Gordon, Attribute listing, Lateral thinking and its development as given by De bono (5)
6. Efforts to be done while teaching for minimizing negative transfer and maximizing positive Transfer of learning (1)

Assignments (25 marks)

1. Planning and implementing a lesson for implementing cooperative learning techniques and writing a report based on the experiences obtained
2. Planning and implementing a lesson to promote creative thinking and writing a report based on experiences obtained

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- Goodman (2008), — Educational Psychology, Studies in the post modern Etheory of Education Germany: Perterland
- Larochele (2009), —Constructivism and Education; UK :Cambridge
- Marlowe(1997), —Creating and Sustaining the constructivist classroom; USA:

- Richardson (1997), "Constructivist Teacher education"; UK: Loutlege
- Smilkstein (2011), "We're Born to Learn"; USA: Corwin
- आगाशे ललिता (२०१०) सहकार्यात्मिक अध्ययन विद्यार्थी गृह प्रकाशन पुणे
- करंदीकर सुरेश (२००१), "शैक्षणिक मानसशास्त्र" फडके प्रकाशन, कोल्हापुर.
- कुंडले म. बा. (१९९१), "सर्जनशीलता", नूतन प्रकाशन, पुणे.
- कोठुरकर वा. कृ. (१९९०) "तुमच्याही लक्षात राहिल" ज्ञानप्रबोधिनी प्रकाशन पुणे
- जगताप ह. ना. (१९९२) अध्ययन उपपत्ती व अध्यापन नूतन प्रकाशन पुणे ३०.
- जगताप ह. ना. (संपादक) (१९९६) शैक्षणिक मानसशास्त्र अनमोल प्रकाशन पुणे.
- दांडेकर वा. ना. (२०१५) "शैक्षणिक व प्रायोगिक मानसशास्त्र" नरेंद्र प्रकाशन पुणे
- पानसे रमेश (२००७) पियाजे व त्यांचे ज्ञानग्रहण विषयक विचार." बालशिक्षण संशोधन विकास केंद्र पुणे.
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- पारसनीस न. रा. (२००९) प्रगत शैक्षणिक मानसशास्त्र नूतन प्रकाशन पुणे - ३०.
- फडके वासंती (१९८८) अध्यापनाची प्रतिमाने, नूतन प्रकाशन पुणे ३०.
- रानडे मृदुला (२०१०) प्रभावी अध्ययन अध्यापन नित्यनूतन प्रकाशन पुणे
- राऊळ सत्यवती (१९८८) अध्ययन उपपत्ती व अध्यापन नूतन प्रकाशन पुणे - ३०

Course 5
Language across Curriculum

Marks: 100; Credit: 4; Hours: 60 (Excluding hours to be spent by student teachers for completing assignments)

Note: Figures in the bracket show hours for curriculum transaction

Module 1: The Nature and Characteristics of Language (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module student teacher will be able to-

- Discuss basic nature and characteristics of language
- Explain importance of phonetics of language
- Elaborate relationship of language with society, culture, literature
- Explain the significance of basic principle of linguistics

Content:

1. Language as basic means of communication (1)
2. Specific human behavior, system of symbols, oral and written forms (2)
3. Innate capacity, habit formation (1)
4. Voice production mechanism (1)
5. Phonetics, phonology, vowel Sounds, Consonants sounds, diphthongs , stress intonation (5)
6. Brief introduction to linguistics as a separate discipline (1)
7. Pragmatics, inter language, multilingualism (1)
8. Language and society (gender, power, identity, class); Language and Culture; Language and literature (1)
9. Standard form of language and dialects (1)
10. Language and Process of thinking (1)

Module 2: Acquisition of Language (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module student teacher will be able to-

- Explain the process of acquisition of language and stages of acquisition of knowledge - Apply the theoretical principles of Dewey, Piaget, Vygotsky, Chomsky in teaching-learning transaction
- Explain functions of brain in language acquisition
- Discuss place and importance of mother tongue, verbal intelligence - Explain the place of language in personality development
- Discuss the impact of ICT on language and English on mother tongue

Content:

1. The process of acquisition of language; Different stages in the acquisition of language (2)
2. Contribution of John Dewey, Jean Piaget, Vygotsky, Noam Chomsky (4)
3. Functions of brain in language acquisition (1)



4. Role of language in socialization (1)
5. Place and importance of mother tongue in individual's life (1)
6. Development of verbal intelligence and related activities (3)
7. Place of language in personality development (1)
8. Impact of ICT on language (1)
9. Impact of English on mother tongue (1)

Module 3: Place and Importance of Language in School Curriculum (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module student teacher will be able to-

- explain the place of language and centrality of language in school curriculum
- discuss the Constitutional provisions and policies
- describe importance of language in every subject education
- explain the correlation of language with other subjects
- discuss the Issue of medium of instruction and Semi English medium for Science

Content

1. Place of language in school curriculum; centrality of language in learning (2)
2. Constitutional provisions and policies (Art 343 to 351)
Provisions in Kothari Commission, National Policy of Education (1986);
Recommendations regarding language education in NCF 2005 (3)
3. Objectives of teaching language in general, their specifications (2)
4. First language, Second language, Third language, Three language formula (1)
5. Importance of language in every subject education-Science/mathematics/social sciences (2)
6. Study of classical languages with special reference to Sanskrit(1)
7. Study of mother tongue, languages from other states, foreign languages (1)
8. Correlation of language with other subjects (1)
9. Issue of medium of instruction, Semi English medium for Science (1)
10. Issues of multilingual class (1)

Module 4: Enriching Language Proficiency (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module student teacher will be able to-

- apply various methods of teaching in transaction of content
- explain the importance of four basic skills
- apply different techniques to enhance teaching learning transaction of language
- discuss various ways of enriching vocabulary
- explain functional purposes of learning language
- explain the characteristics of language teacher
- appreciate the language

Content

1. Pedagogy of language; various methods of teaching language : aural-oral method, structural method, grammar translation method, direct method, grammar translation method, direct method, Interactive teaching and Cooperative learning (4)
2. Teaching of four basic skills : listening, speaking, reading, writing; Different ways and activities to develop these skills; Interrelationship of these skills; Constructivism in language teaching (3)
3. Different techniques to enhance teaching learning transaction of language : debate, elocution, role play, mock conversation, dramatization, quiz, cross word puzzles, riddles, language games (3)
4. Enrichment of vocabulary, active and passive vocabulary, synonyms, antonyms, Conversion of word forms(noun to adjective, verb to noun, adjective to noun, noun to verb etc), one word substitution, idioms, phrases, proverbs, figures of speech (1)
5. Developing verbal/ linguistic creativity (1)
6. Developing art of translation, appreciation of literature and Encouraging creative writing (1)
7. Learning language for specific functional purposes: Conversation, to make introduction, vote of thanks, compeering, announcements, interview (taking and giving), short speech, debate (1)
8. Characteristics needed for language teacher (1)

Assignments (Marks 25)

1. To prepare learning material in the form of written script based on different techniques to enhance teaching learning transaction of language: debate, elocution, role play, mock conversation, dramatization, quiz, cross word puzzles, riddles. (15)
2. Discuss the issue of multiculturalism and multilingualism in classroom with teachers and prepare a written report on it. (10)

References

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- Kennedy Chris (Ed.) (1984), *Language Planning and Language Education* , George Allen and Unwin, London.
- Kubota Ryuko, Lin Angel (Ed.) (2009), *Race, Culture, Identities in second Language Education* , Routledge, New York.
- Singh V.D. (2008), *Language Learning, Teaching and Testing* , Cambridge University, Press India, New Delhi.
- Valdman A (1966), *Trends in Language Teaching* , McGraw Hill Book Company, New York.
- Wilkinson Andrew (1971), *The Foundation of Language* , Oxford University Press, Oxford.

Total Credits: 4, Marks: 100, Hours: 60 (excluding hours to be spent by student teachers for completing assignments)

Note: Figures in the bracket show hours.

Module 1: Understanding Curriculum and Aims of teaching English Language

Objectives: After learning this module the student teacher will be able to -----

- explain the nature and structure of English Language
- express the importance of English Language as a means of communication.
- develop insight into major concepts, principles, perceptives and features of English Language at school level
- analyze features and principles of curriculum development of English Language

Contents

1. Nature of English Language: (4)

English as: a global language, language of knowledge, language of literature, language of science and technology, link language at national level, language of software in computers, language with enriched vocabulary, major language of news and information, official language of many international organizations, most commonly taught foreign language, library language for higher education

2. Structure of English Language (4)

Phonetics of English Language, Stress and Intonation, Parts of Speech, Tense, Voice, Direct- Indirect speech, Punctuation, Word Formation, Figures of Speech, Characteristics of prose, poetry and drama

3. Basic Skills of English Language (5)

Characteristics of and relationship among four Basic Skills of English Language namely Listening, Speaking, Reading, Writing

4. Principles of Curriculum Development of English Language (2)

Nature and concept of curriculum, Characteristics of Curriculum (Comprehensive, Balanced, Graded, Relevant, Progressive),

Module 2: Planning of teaching English Language

Objectives: After learning this module the student teacher will be able to ---

- understand the aims of English Language Education at school level
- plan for developing four Basic Skills of English Language through English teaching
- write instructional objectives of teaching of a topic
- establish correlation of English with other school subjects and life situations
- design learning experiences for achieving various objectives of English learning

Contents:

1. Objectives of Teaching English at upper primary and secondary school level as given by State Curriculum (3)
2. Importance and characteristics of good planning(2)
3. Identifying and designing teaching-learning experiences; Organizing activities, making groups, planning ICT applications in learning English (4)
4. Planning for organizing various curricular activities, such as debate, discussion, role play, elocution, quiz, language games, mock interviews, cross word puzzles, drama, poster making on issues related to English language (3)
5. Planning for organizing events such as poetry recitation, literary meet, English cultural program, Teachers' Day English exhibitionetc. (3)

Module 3: Facilitating learning of English Language

Objectives: After learning this module the student teacher will be able to ---

- understand pedagogical shift in teaching of English Language
- use various methods and models of teaching in teaching of English Language
- facilitate self learning of English
- promote cooperative learning in learning of English

Content:

1. Pedagogical shift from memorizing content to acquiring skills, from structural approach to communicative approach, from formal acquisition of language to functional application of language and from deductive thinking to inductive thinking (3)
2. Using narration/explanation and demonstrations for better comprehension (2)
3. Facilitating learners for self-study through use of dictionaries, thesaurus, encyclopedias computers, online learning (3)
4. Using Small Group and Whole Group Instruction strategies through Cooperative and Collaborative approaches to learning, Brain storming, Role Play and Dramatization, Group Discussion, Simulation and Games, Quiz, Mock Conversations (6)

Module 4: Evaluating student-learning and Professional Growth of teachers

Objectives: After learning this module the student teacher will be able to ---

- explain concept of continuous and comprehensive evaluation
- develop indicators for performance assessment in English Language Education
- construct various tools for formative and summative evaluation in English Language Education
- understand importance of and ways to develop professionally as a good English teacher
- plan for an action research related to English Language Education

Content:

1. Concept and importance of continuous and comprehensive evaluation, formative and summative evaluation as constructivist perspective (2)



2. Developing framework and indicators for performance assessment in English: Scores of written and oral tests, oral presentations, written assignments, observations during group discussions/ role play/ interviews, scores of quiz, project reports, port folios, performance rubrics (2)
3. Construction of test items (open-ended and structured) in English and administration of tests (2)
4. Exploring aims and objectives in English not assessed in formal examination system and their evaluation through various curricular and co-curricular activities (2)
5. Professional development for English teachers through --- (3)
 - Participation in seminar, conferences on English Language Education
 - Books, journals and periodicals regarding English Language Education
 - Computer and online resources regarding English Language Education
 - Collaboration of school with colleges, universities and other institutions
 - Reflective practices regarding one's own teaching performance
 - Use of Feedback from learners, colleagues and self
6. Teacher as a researcher: Role of research in generation of knowledge, Research for problem solving in teaching of English, Doing action research in English Language Education, Review of research English Language Education (2)
7. Participating in social activities such as book exhibitions, English lectures/drama /movies, Popularizing English Language Education (2)

Assignments (25 Marks)

1. Preparing learning material/games/script for dramatization for facilitating English Language Education (10 marks)
2. Write a report regarding problems of English teaching based on an interview with an English teacher of a secondary school. (10 marks)
3. Prepare one lesson note based on any one of Team Teaching/ Collaborative Learning/ Models of Teaching (5 Marks)

List of Recommended books

- Banerjee Ranjana, (2007) Teaching of English', Rajat Publication New Delhi.
- Bhanot Suman (2013), English Language Teaching', Kanishka Publishers, New Delhi.
- Chaudhary menu (2012) Methodology of Teaching', Pearson, New Delhi.
- David A, (2005), Teaching of English for Creative Activity', Commonwealth Publishers New Delhi
- Dey Sadhan Kumar (2013) Teaching of English', Pearson, New Delhi.
- Kumar Ashok (Ed.) (2010) Swiftly Shifting Paradigms of English Language Teaching in India', Author Press, New Delhi
- Sharma, S.P. (2013), Teaching English, Kanishka Publisher, New Delhi.
- Verghese (1998), Creativity in English Language Teaching', Anmol Publications, New Delhi.

कुल अंक : १००

कुल तासिका : ६०

आंतरिक मूल्यमापन : २५

बाह्य मूल्य, मापन : ७५

स्वयंपूर्णांग : १ हिंदी का पाठ्यक्रम, ध्येय तथा स्वरूप।

उद्देश : प्रस्तुत स्वयंपूर्णांग के अध्ययन द्वारा विद्यार्थी शिक्षक...

हिंदी भाषा का स्वरूप, रचना स्पष्ट करेगा।

- उच्च प्राथमिक तथा उच्च माध्यमिक स्तर पर हिंदी भाषा अध्ययन अध्यापन के उद्देश्य स्पष्ट करेगा।
- ब्लूम एवं एंडरसन के उद्देशो कि श्रेणीबद्ध रचना का स्पष्टीकरण देगा।
- हिंदी भाषा का अन्य विषयों के साथ सहसंबंध स्पष्ट करेगा।

विषयवस्तु

१ हिंदी भाषा का स्वरूप (कालखंड की दृष्टि से)आदिकाल, मध्यकाल, आधुनिककाल। ३

२ हिंदी भाषा की संरचना। (गद्द, पद्द, व्याकरण) ३

३ उच्च प्राथमिक तथा उच्च माध्यमिक स्तर पर हिंदी भाषा अध्ययन अध्यापन के उद्देश्य। ३

४ ब्लूम एवं एंडरसन के उद्देशो कि श्रेणीबद्ध रचना का स्पष्टीकरण। ३

५ हिंदी भाषा का अन्य विषयों के साथ सहसंबंध। ३

स्वयंपूर्णांग : २ हिंदी भाषा अध्ययन का नियोजन।

उद्देश : प्रस्तुत स्वयंपूर्णांग के अध्ययन द्वारा विद्यार्थी शिक्षक .

- नियोजन की संकल्पना, महत्व स्पष्ट करेगा।
- नियोजन के प्रकार स्पष्ट करके नियोजन करेगा।
- हिंदी पाठ का आशय विश्लेषण करेगा।
- हिंदी भाषा विकास के बारेमे बताएगा।

- हिंदी भाषा विकास के लिए सहशालेय उपक्रमों का आयोजन करेगा .

विषयवस्तु

- १ नियोजन की संकल्पना और महत्वा ३
- २ नियोजन के प्रकार : वार्षिक नियोजन, ईकाई नियोजन, पाठ नियोजना ३
- ३ हिंदी भाषा के पाठ का आशय विश्लेषण :संकल्पना, आवश्यकता और महत्व । ३
- ४ हिंदी भाषा विकास : श्रवण, वाचन, लेखन और अभिव्यक्ति ३
- ५ हिंदी भाषा विकास के लिए सहशालेय उपक्रमों का आयोजना ३

स्वयंपूर्णाग : ३

उद्देश : प्रस्तुत स्वयंपूर्णाग के अध्ययन द्वारा विद्यार्थी शिक्षक .

- हिंदी भाषा अध्यापन की पद्धतियाँ और सहकार्यात्मक पद्धति बताकर उसका उपयोग करेगा ।
- हिंदी भाषा अध्यापन के प्रतिमान का उपयोग करेगा ।
- हिंदी भाषा अध्यापन के स्रोत बताएगा।

विषयवस्तु

- १ हिंदी भाषा अध्यापन की पद्धतियाँ : प्रश्न पद्धति, चर्चा पद्धति, व्याख्यान पद्धति और सहकार्यात्मक अध्यापन पद्धति ५
- २ हिंदी भाषा अध्यापन के प्रतिमान : अग्रत संचटक प्रतिमान, संकल्पना प्राप्ति प्रतिमान, उद्गामी अवगामी प्रतिमान और भूमिका पालन प्रतिमान। ५
- ३ हिंदी भाषा अध्यापन के स्रोत : ई-अध्ययन, सांघिक अध्ययन, बुद्धि मंथन, पुस्तकालय, पत्र पत्रिकाए, आदि। ५

स्वयंपूर्णाग : ४

उद्देश : प्रस्तुत स्वयंपूर्णाग के अध्ययन द्वारा विद्यार्थी शिक्षका .

- मूल्यमापन :संकल्पना, महत्व, उद्देश्य और प्रकार बताएगा ।

- संकलित तथा विकासात्मक मूल्यमापन, सतत और सर्वग्राही मूल्यमापनापोर्ट फोलियो(portfolio) की संकल्पना बताएगा।
- व्यवसायिक विकास के विविध मार्ग तथा उनका महत्व बताएगा।

विषयवस्तु

१ मूल्यमापन :संकल्पना, महत्व, उद्देश्य।

२ मूल्यमापन प्रकार।

३ संकलित तथा विकासात्मक मूल्यमापन, सतत और सर्वग्राही मूल्यमापनापोर्ट फोलियो(portfolio)।

४ व्यवसायिक विकास के विविध मार्ग तथा उनका महत्वा

अ)उद्बोधन तथा चर्चा सत्र में सहभागा ब)संगणक तथा ऑनलाइन स्रोता क)अन्य शैक्षणिक संस्थाके साथ सहकार्या ड)किताबे, मासिक, पत्रिका और नियतकालिक के लिए योगदानाइ) अनुसंधान कार्या

परीयोजन कार्या :

- अध्ययन के लिये कोई दो अध्ययन अध्यापन सामग्री तैयार कीजिये और उनकी एक प्रदर्शनी का आयोजन कीजिये (१० मार्क)
 - अपने नजदीक के भाषा मंडल , हिंदी विभाग , आकाशवाणी केंद्र , हिंदी साहित्यकार का साक्षात्कार एवं हिंदी संगोष्ठी कार्यक्रम का आयोजन आदि के उपर एक रिपोर्ट बनाईए (१५ अंक)
 - सामुहिक अध्यापन पद्धति, सहकार्यात्मक अध्यापन पद्धति या अध्यापन के प्रतिमान के आधार पर पाठ पत्रिका तैयार कीजियो (५ अंक)
1. योगे I कुमार (2004), आधुनिक हिन्दी शिक्षण, नई दिल्ली, एच.पी.एच. पब्लिशिंग कॉर्पोरेशन
 2. दुनाखो अरविंद, दुनाखे अंजुमती, (2005), द्वितीय भाषा हिन्दी आधुनिक अध्यापन, पुणे नित्यनूतन प्रकाशन
 3. एस.आर. कट्टी, मेकेंडी वनिता, (2005), द्वितीय भाषा हिन्दी कोल्हापूर, फडके प्रकाशन
 4. साठे ग.न., (1962), राष्ट्रभाषा का अध्यापन, पुणे राष्ट्रभाषा सभा
 5. मुखर्जी श्रीधरनाम, (1965), राष्ट्रभाषा की शिक्षा बडौदा, आचार्य बुक डिपो.
 6. पठाण बी.बी., (2005), हिन्दी आधुनिक अध्यापन, पुणे नित्यनूतन प्रकाशन.
 7. पंडित ब.वि., पठाण युनूस, हिन्दी अध्यापन, पुणे, नूतन प्रकाशन
 8. पाण्डेय राम लाल (1975), हिन्दी शिक्षण, आगरा, विनोद पुस्तक मंदिर
 9. कुलकर्णी ह. कृ. (2005), हिन्दी अध्यापन पद्धति, आगरा, हिन्दी संस्थान
 10. बोंबे बा.सं., (1994), हिन्दी की अध्यापन पद्धति, पुणे, नूतन प्रकाशन
 11. बोंबे बा.सं., (2005), हिन्दी की अध्यापन पद्धति, पुणे, नूतन प्रकाशन
 12. भाई योगेंद्रजी, (1977), हिन्दी भाषा शिक्षण, आगरा, विनोद पुस्तक मंदिर

Total Credits: 4; Marks: 100; Hours: 60 for theory excluding hours to be spent by student teachers for completing assignments

Note: Figures in the bracket show hours for curriculum transaction

स्वयंपूर्णांग १ मराठी भाषा शिक्षणाचे स्वरूप, ध्येये

श्रेयांक १ तासिका १५

उद्दिष्टे ४ हे स्वयंपूर्णांग अभ्यासल्यानंतर विद्यार्थिनी शिक्षिकेला.....

- मातृभाषा मराठीचे स्वरूप व सद्यस्थितीचे विश्लेषण करता येईल .
- मातृभाषा मराठीची जडणघडण व विकास समजेल .
- मातृभाषा मराठी अध्यापनाचे मानवी जीवनातील स्थान व महत्त्व समजेल .
- ज्ञानरचनावादी दृष्टिकोनातून विद्यार्थिनी शिक्षिकेची भूमिका स्पष्ट करता येईल .
- मातृभाषा मराठीतील व्याकरण व त्याची आवश्यकता, भाषा व व्याकरण यांचा परस्पर संबंध सांगता येईल .
- मातृभाषा मराठी अध्यापनाची ध्येय, उद्दिष्टे वर्तन निष्पत्तीसह मांडता येतील .
- अभ्यासक्रम रचनेची आधारभूत तत्त्वे व वर्तमान अभ्यासक्रमाची वैशिष्ट्ये यांचे आकलन होईल .

आशय.....

१. मातृभाषा मराठीचा अर्थ व मातृभाषा मराठीचे स्वरूप ४ अभिजात भाषा, प्रमाण भाषा, बोलीभाषा, मातृभाषा मराठीची सद्यस्थिती,
२. ज्ञानरचनावादी दृष्टिकोनातून मातृभाषा मराठी अध्यापनाची बदलती संकल्पना गरज महत्त्व व शिक्षकाची भूमिका
३. मातृभाषा मराठीचे मानवी जीवनातील स्थान व महत्त्व पुढील घटकांसंदर्भात^१ ग्रहण व अविष्करणातील, संस्कृती संवर्धन व संक्रमणातील, ज्ञानरचना प्रक्रियेतील, व्यक्तिमत्त्वाचा सर्वांगीण विकासातील
४. मराठी भाषा शिक्षणाविषयी राष्ट्रीय अभ्यासक्रम आराखडा २००५ मधील शिफारशी, मातृभाषा मराठी अभ्यासक्रम रचनेची तत्त्वे, सद्याच्या माध्यमिक स्तरावरील मराठीच्या अभ्यासक्रमाची वैशिष्ट्ये
५. पाठ्यक्रम विश्लेषण ४ गाभाघटक, मूल्ये, जीवनकौशल्ये
६. आशय विश्लेषण ४ संकल्पना, गरज, महत्त्व, घटक.
७. मातृभाषा मराठीच्या अध्ययन अध्यापनाची उद्दिष्टे ४ सर्वसामान्य उद्दिष्टे, भाषिक उद्दिष्टे, वाङ्मयीन उद्दिष्टे

स्वयंपूर्णांग २ मराठी भाषा शिक्षणाचा अभ्यासक्रम अध्यापनाचे नियोजन श्रेयांक १ तासिका

उद्दिष्टे ४ हे स्वयंपूर्णांग अभ्यासल्यानंतर विद्यार्थिनी शिक्षिकेला.....

- मातृभाषा मराठी अध्यापनाचे नियोजन व व्यवस्थापन कौशल्याने करता येईल .
- मातृभाषा मराठीच्या अध्यापनाची अध्यापनशास्त्रीय तत्त्वे, नियम यांचे आकलन होईल .
- मातृभाषा मराठीच्या अध्यापनाच्या विविध पध्दतींचा, तंत्राचा, प्रतिमानांचा योग्य वापर करता येईल .

- मराठी भाषेचा विषयांतर्गत अन्य शालेय विषयांशी दैनंदिन जीवनाशी असणारा समवाय सांगता येईल.
- मातृभाषा मराठीच्या अध्यापनातील अलंकारांचा वापर करता येईल.
- मातृभाषा मराठीतील लेखनविषयक नियमावली, शुद्धलेखनाच्या नियमांचा वापर करून लेखन करता येईल.

आशय ४

मातृभाषा मराठीच्या अध्यापनाचे नियोजन ४

१. नियोजन ४ वार्षिक नियोजन घटक नियोजन पाठ नियोजन ४ संकल्पना स्वरूप गरज महत्त्व व पार्य या
२. अभ्यासानुवर्ती अभ्यासपूरक सहशालेयउपक्रम.
३. मराठी भाषेचा विषयांतर्गत अन्य शालेय विषयांशी व दैनंदिन जीवनाशी असणारा समवाय.
४. अध्ययन अध्यापन पध्दती ४ व्याख्यान, कथन, चर्चा, प्रकल्प, संगणक सहाय्यित स्वयंअध्ययन पध्दती, वेब बेस अध्ययन पध्दती.
५. अध्यापनाची तंत्रे ४ अभिरूपता, सहकार्यात्मक अध्ययन, बुद्धीमंथन, भाषिक खेळ.
६. अध्यापनाची प्रतिमाने ४ अग्रत संघटक प्रतिमान, संकल्पना प्राप्ती प्रतिमान, भिन्नान्वयन प्रतिमान, उद्गामी विचारप्रक्रिया प्रतिमान.

स्वयंपूर्णांग ३ मराठी भाषा शिक्षणाच्या अध्ययनाचे सुलभीकरण (श्रेयांक-१, तासिका-१५)

उद्दिष्टे ४ हे स्वयंपूर्णांग अभ्यासल्यानंतर विद्यार्थिनी शिक्षिकेला.....

- मातृभाषा मराठी पाठ्यपुस्तकाची गरज, महत्त्व व उपयुक्तता सांगता येईल.
- मातृभाषा मराठीच्या पाठ्यक्रमाचे विश्लेषण करता येईल.
- पाठ्यक्रम व पाठ्यपुस्तकाचा सहसंबंध समजेल.
- पाठ्यपुस्तकाचे निकषांच्या आधारे मूल्यमापन करता येईल.
- भाषा प्रयोग शाळेचे स्वरूप रचना महत्त्व स्पष्ट करता येईल.
- शैक्षणिक साधनाची निर्मिती व त्यांचा प्रभावी वापर करता येईल.
- मराठी भाषा शिक्षण मंडळाची रचना, कार्य, स्वरूप महत्त्व स्पष्ट करता येईल.
- बहुमाध्यमाधारीत साधनांचा योग्य वापर करतील.
- शब्दकोश विश्वकोश व्युत्पत्तीकोश संस्कृतीकोशाचा योग्य वापर करता येईल.
- विविध वाङ्मयीन कलाकृतींचा अध्ययन अध्यापनात योग्य वापर करेल.

आशय.....

१. मातृभाषा मराठी पाठ्यपुस्तक ४ गरज उपयुक्तता अंतरंग बहिरंग निकष.
 २. मातृभाषा मराठीच्या अध्यापनाची साधने शैक्षणिक साधनाची निर्मिती व त्याच्या वापरातील शिक्षकाची भूमिका.
- अ. अप्रक्षेपित साधने ४ छापील व मुद्रित साहित्य तक्ते चित्रे प्रतिकृती
- ब. प्रक्षेपित साधने ४ पारदर्शक प्रक्षेपक, चित्रपट प्रक्षेपक, शीर्ष प्रक्षेपक
- क. बहुमाध्यमाधारीत साधने ४ माहितीपट व चित्रपट संगणकीय बहुमाध्यमाधारीत सादरीकरण सामाजिक आंतरक्रिया माध्यमे

४. मराठी भाषा शिक्षण मंडळः स्वरूप रचना कार्य व्यवस्थापन महत्त्व
५. संदर्भ ग्रंथ ४ शब्दकोश विश्वकोश व्युत्पत्तीकोश संस्कृतीकोश ४ स्वरूप व वापर
६. विविध वाङ्मयीन कलाकृती ४ कादंबरी कथा ललित लेखन काव्य अभंग ओवी लोकगीते भावगीते इ. स्वरूप, वापर आणि अभ्यासपूरक उपक्रम आयोजन.
७. नियतकालिक ४ स्वरूप व वापर
८. क्षेत्रभेट ४ ग्रंथालय भाषा भवन साहित्यिक स्मृतीस्थळे प्रदर्शन.

स्वयंपूर्णांग ४ विद्यार्थ्यांच्या अध्ययनाचे मूल्यमापन आणि शिक्षकांचा व्यावसायिक विकास श्रेयांक १ तासिका १५

उद्दिष्टे ४ हे स्वयंपूर्णांग अभ्यासल्यानंतर विद्यार्थिनी शिक्षिकेला.....

- स्वतःचे कर्तव्य जबाबदा-या व बांधीलकी यांची जाणीव विकसित होईल.
- सातत्यपूर्ण सर्वकष मूल्यमापनाची संकल्पना प्रकार सांगता येईल. विविध साधनांचा आणि तंत्रांचा वापर करता येईल.
- मराठी भाषा अध्यापकाची भूमिका कर्तव्य क्षमता गुणवैशिष्ट्ये सांगता येईल.
- स्वतःला व्यावसायिक दृष्ट्या सक्षम व अद्ययावत ठेवण्याची क्षमता प्राप्त होईल.

आशय.....

१. मूल्यमापन. सातत्यपूर्ण सर्वकष मूल्यमापन ४ संकल्पना स्वरूप गरज महत्त्व व प्रक्रिया
२. ज्ञानरचनावादी दृष्टिकोनातून मूल्यमापन प्रक्रिया.
३. मराठी भाषा अध्यापक ४ भूमिका कर्तव्य क्षमता बांधीलकी गुणवैशिष्ट्ये
४. मराठी मातृभाषा अध्यापकाच्या व्यावसायिक विकासासाठी पूरक उपक्रम ४ सेवांतर्गत प्रशिक्षण, मराठी भाषा अध्यापक संघटना, भाषाविषयक छंदमंडळ, साहित्यिक मेळावे व संमेलन
५. मराठी मातृभाषा अध्यापन विषयक संशोधन ४ कृती संशोधन.

प्रात्यक्षिक कार्य ४ ३२५ गुण

१. मराठी भाषा अभिरूची संवर्धनासाठी कोणत्याही दोन उपक्रमांचे आयोजन व अहवाल लेखन करा ३१५'
२. एका शालेय पाठ्यपुस्तकाचे निकषांच्या आधारे मूल्यमापन करा. ३१०'

किंवा

१. मराठीच्या अध्यापनासाठी खालीलपैकी कोणतेही दोन साधने तयार करा ३१५'

३ तक्ता, ध्वनीमुद्रिका, पोस्टर, चित्रकथा, बाहुली नाटय, भाषिक कोडी, त्रिमीतीय चित्र, तरंग चित्र, प्रतिकृती, इ.

२. काव्यसंमेलन A साहित्यसंमेलन भेट व अहवाललेखन करा. ३१०'

संदर्भ ग्रंथ ४

१. अकोलकर ग. वी. , पाटणकर ना. वि ३१९७७, मराठीचे अध्यापन, दिनस प्रकाशन पुणे.
२. करंदीकर सुरेश, ३१९७१, मातृभाषा अध्यापन पद्धती, सु. रा. नीलकंठ प्रकाशन पुणे.

३. करंदीकर सुरेश, मंगरूढकर मीना ^{३२०१०}, मराठीचे आशययुक्त अध्यापन पद्धती, फडके प्रकाशन, कोल्हापूर.
४. कुंडले म. बा. ^{३१९९९}, मराठीचे अध्यापन, श्री विद्या प्रकाशन, नागपूर.
५. जांशी अनंत, ^{३१९९९}, आशययुक्त अध्यापन पद्धती, यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठ, नाशिक.
६. पिचड नलिनी, बरकले रामदास ^{२००१}, मातृभाषा मराठीचे अध्यापन शास्त्रीय विश्लेषण, तेजश्री प्रकाशन, नाशिक.
७. अकोलकर ग. वि. पाटणकर ना. वि. ^{२००८},
८. वाळिंबे मो. रा. ^{२०११}, सुगम मराठी व्याकरण लेखन, नितीन प्रकाशन, पुणे.
९. कुमारभारती इ. ९वी. ^{२०१२}, महाराष्ट्र राज्य माध्यमिक व उच्च माध्यमिक शिक्षण मंडळ, पुणे.
१०. कुमारभारती इ. १०वी. ^{२०१३}, महाराष्ट्र राज्य माध्यमिक व उच्च माध्यमिक शिक्षण मंडळ, पुणे.

Course 6:7: Subject Education: Mathematics Education

Credits: 4; Marks: 100; Hours: 60 for theory excluding hours to be spent by student teachers for completing assignments

Note: Figures in the bracket show hours for curriculum transaction

Module 1: Understanding Curriculum and Aims of Mathematics (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- explain the nature and structure of Mathematics
- state the aims of Mathematics education
- plan for imbuing values through Mathematics teaching
- elaborate on skills, competencies and commitment required for becoming a mathematics teacher
- write instructional objectives of teaching of a topic
- analyze features of existing curriculum of Mathematics in the light of NCF 2005 and principles of curriculum development
- establish correlation of Mathematics with other subjects

Content:

1. Nature and Structure of Mathematics: Characteristics and functions of Mathematics; Branches of Mathematics; Facts, concepts, principles, rules and theorems in Mathematics(2)
2. Aims of teaching Mathematics (2)
3. Values developed through mathematics (1)
4. Skills and competencies (Content, contextual, transactional, preparing teaching aids, management, evaluation) and commitment required(towards learner, subject, profession, society, values) for Proficiency in Mathematics teaching (2)
5. Solving problems of everyday life through mathematics (1)
6. Objectives at upper primary and secondary school level as given by State Curriculum (1)
7. Determining acceptable evidences that show learners' understanding with the help of Bloom and Anderson's hierarchy of objectives of teaching (2)
8. Expectations about constructivist Mathematics teaching in NCF 2005; General principles of curriculum development and Trends in Mathematics curriculum; Consideration in developing learner centered curriculum in Mathematics; Analysis of features of existing curriculum of Mathematics at upper primary and secondary school level and textbooks (3)
9. Establishing correlation of Mathematics with other school subjects and life (1)

Module 2: Planning of teaching Mathematics (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- explain importance and characteristics of planning
- plan for teaching major concepts, principles and theories of Mathematics at school level
- design and implement co-curricular activities for Mathematics learning

Content:

1. Importance and characteristics of good planning (1)
2. Planning for designing learning experiences, activities and developing instructional material for teaching following content:(12)
3. Real Numbers, Sets, Algebraic Expressions, Linear and Quadratic Equations, Ratio, Proportion and Variation, Probability, Statistics and Graph, Triangles-properties, Circle, Similarity, Quadrilaterals, Coordinate Geometry, Trigonometry and contribution of Indian Mathematicians (Any three).
4. Planning for organizing various co-curricular activities such as quiz, drama, poster making on units related to Mathematics; Mathematics Day celebration. (2)

Module 3: Facilitating learning of Mathematics (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- use various methods and models of teaching Mathematics
- promote construction of knowledge
- facilitate self learning of Mathematics
- promote cooperative learning
- use various learning resources

Content:

1. Using explanation and activities for facilitating understanding (1)
2. Promoting thinking and construction of knowledge through using Concept Attainment, Inductive Thinking, Problem solving and Project Based Learning (4)
3. Facilitating learners for self-study through use of computers, Internet resources-Websites, You Tubes, online learning, using activity sheets, assigning homework/assignments (2)
4. Using Small Group and Whole Group Instruction strategies through Cooperative and Collaborative approaches to learning(3)
5. Facilitating learning through Inductive-deductive and analysis-synthesis method (2)
6. Using learning resources for teaching Mathematics: (3)
 - Mathematics laboratory
 - Audio and Visual aids
 - Community resources such as post office, bank, exhibitions

Module 4: Evaluating student-learning and Professional growth of teacher (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- explain concept of continuous and comprehensive evaluation
- construct the test items (open-ended and structured) in Mathematics for administration of tests to the learners
- construct various tools for formative and summative evaluation in Mathematics
- suggest various activities for teachers to develop professionally
- plan for an action research
- organize various social activities for development of mathematical attitude and popularizing Mathematics education

Content:

1. Concept and importance of continuous and comprehensive evaluation, formative and summative evaluation as constructivist Perspective (2)
2. Construction of test items (open-ended and structured) in Mathematics and administration of tests (3)
3. Exploring aims and objectives in Mathematics not assessed in formal examination system and their evaluation through various curricular and co-curricular activities such as assignments, homework and projects (1)
4. Professional development for Mathematics teachers through (5)
 - Participation in seminar, conferences
 - Computer and online resources
 - Collaboration of school with colleges, universities and other institutions
 - Books, Journals and periodicals
 - Reflective practices of Mathematics teachers
 - Field visits
 - Use of Feedback from learners, colleagues and self
5. Teacher as a researcher: Learning to understand through research- how children learn Mathematics, Action research in Mathematics. (2)
6. Organizing social activities such as Mathematics club, exhibitions/ Mathematics fair for development of mathematical attitude and popularizing Mathematics education (2)

Assignments: (Marks 25)

1. Organizing Mathematics exhibition/ Mathematics fair in group for School students/society and writing a report including following points: Planning and preparation of material for exhibition/fair, execution of exhibition/Mathematics fair, feedback obtained from students, teachers and parents and reflections on experiences (10 Marks)
2. Prepare any one from these: chart, mathematics game, flash cards, graphs, posters, model for explaining mathematical concept or deriving new rule or formula (10 Marks)

3. Prepare one lesson note based on any one of Team Teaching/ Collaborative Learning/ Models of Teaching (5 Marks)

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- Patil Prashant, Shaikshanik Tantravidyan Aani Vyavsthapan, Nutan Prakashan, Pune.
- Parasnis Hemlata, Leena Deshpande, Shaikshanik Kruti Sanshodhan, Nutan Prakashan, Pune
- Phatak Manik, Shikshanatil Parikshan Aani Mapan, Nutan Prakashan, Pune.
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- Ponkshe D.B., Sanyoglata Makhija, Ganitache Adhyapan, Nutan Prakashan, Pune.
- Rawool Satyawati, Anant Oak, Ganit- Swaroop Adhyayan Adhyapan, Nutan Prakashan, Pune.
- Sapre Nilima, Priti Patil, Adhyapanachi Pratimane, Phadake Prakashan, Kolhapur
- Sohani Chitra, Adhyapanachi Pratimane, Nitya Nutan Prakashan, Pune.



Total Credits: 4; Marks: 100; Hours: 60 for theory excluding hours to be spent by student teachers for completing assignments

Note: Figures in the bracket show hours

Module 1: Understanding Curriculum, Nature and Aims of Geography (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- explain the meaning, definition, nature and structure of Geography
- understand the aims of Geography education
- plan for imbuing values through Geography teaching
- write instructional objectives of teaching of a topic
- analyze features of existing curriculum of Geography in the light of NCF 2005 and principles of curriculum development
- establish correlation of Geography with other subjects

Content :

1. **Meaning, Definition and Nature of Geography:** Geography as a description of earth surface, explanation of various geographical phenomena, visualization personality of a region and Analysis of interplay between man and environment (3)
2. **Structure of Geography:** Branches of Geography (Physical, Human, Regional): concepts, features and importance (2)
3. **Aims of teaching Geography Education:** Cultural Aims, Intellectual Aims, Social or Citizenship Aim, Relating Geography Education to the environment (natural environment, artifacts and people) (2)
4. **Values in Geography Education:** Educational Values, Ecological Value, Social Value, Physical development Value, Recreational Value, Cultural Value (1)
5. Objectives at upper primary and secondary school level as given by State curriculum (1)
6. Determining acceptable evidences that show learners' understanding with the help of Bloom and Anderson's hierarchy of objectives of teaching (1)
7. Expectations about constructivist Geography teaching in NCF 2005, General principles of curriculum development and Trends in Geography curriculum; Consideration in developing learner centered curriculum in Geography, Analysis of Features of existing curriculum of Geography at upper primary and secondary school level and textbooks(4)
8. Establishing correlation of geography with other school subjects and life(1)

Module 2: Planning of teaching Geography (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- explain importance and characteristics of planning

- plan for teaching major concepts, principles and theories of Geography at school level
- design co-curricular activities for Geography

Contents

1. Importance and characteristics of good planning(1)
2. Planning for designing learning experiences, field visits, activities and developing instructional material for teaching following content:(8) Major Concepts, principles and theories in Geography curriculum at Secondary School level: location (Grid system of latitudes and longitudes),Differentiating between sites (location) and situation (place), Time, Globe (Equator, Tropic of Cancer and the Tropic of Capricorn), Solar system, Human occupation, Ecosystem, Continent drift theory. Contribution of eminent scientists such as Humbolt, Carl Ritter,and Vidal de La Bluche .
3. Identifying and designing teaching-learning experiences; Planning field visits(Market, Sea shore life, Botanical garden, World trade center, Green house ,National Park, Poly house ,Industry, Sanctuary, valley, Crop Cultivation, Planetarium, River etc.); Organizing activities, laboratory experiences, making groups, planning ICT applications in learning geography(3)
4. Planning for organizing various curricular activities, such as debate, discussion, drama, poster making on issues related to geography. Organizing events on specific day such as Earth Day, Consumer day, Environment Day, Population day, Geography Day etc (2)
5. Planning and organizing field experiences, Geography club, Geography exhibition (1)

Module 3: Facilitating learning of Geography

Objectives: After learning this module the student teacher will be able to-

- understand Psychology of learning & teaching of constructivism in Geography
- use various methods and models of teaching
- facilitate self learning of Geography
- promote cooperative learning
- use various learning resources

Contents :

1. Perspective on the Psychology of learning & teaching of constructivism in Geography (2)
2. Promoting thinking and construction of knowledge through using Concept Attainment, guided discovery, Project Method, Journey method, regional method, comparative method (8)
3. Facilitating learners for self-study through use of computers, Internet resources-Websites, You Tubes, Geography Channel , online learning, using activity sheets, assigning homework/assignments (2)

4. Using Small Group and Whole Group Instruction strategies through Cooperative and Collaborative approaches to learning, Brain storming, Role Play and Dramatization, Group Discussion, team teaching, Games, Quiz (3)

Module 4: Evaluating student-learning and Professional growth of teacher (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- explain concept of continuous and comprehensive evaluation
- develop indicators for performance assessment in Geography
- construct various tools for formative and summative evaluation in Geography
- understand importance and ways to develop professionally
- plan for an action research

Contents :

1. Concept and importance of continuous and comprehensive evaluation, formative and summative evaluation as constructivist Perspective (2)
2. Developing framework and indicators for performance assessment in Geography: Learners record of observations; Field diary, Mapping, Portfolio; Assessment of project work (both in the laboratory and in the field); assessment of participation in collaborative learning; Assessment of experimental work in Geography (3)
3. Construction of test items (open-ended and structured) in Geography and administration of tests (3)
4. Exploring aims and objectives in Geography not assessed in formal examination system and their evaluation through various curricular and co-curricular activities (1)
5. Professional development for Geography teachers through (2)
 - Participation in seminar, conferences
 - Computer and online resources
 - Collaboration of school with colleges, universities and other institutions
 - Books, Journals and periodicals
 - Reflective practices of Geography teachers
 - Field visits
 - Use of Feedback from learners, colleagues and self
6. Teacher as a researcher: Learning to understand how children learn geography through research, action research in geography. (3)
7. Organizing social activities such as exhibitions, Geography fair for development of scientific attitude and popularizing Geography education (1)

Assignments: (Marks 25)

1. Writing a report based on visit to any one place such as oceanography Institute, Climatology Department, Municipal/ Corporation Environment Dept, Rural health

- Dept, Water pumping Plant, Planetarium, Geography Dept Industry/Factory etc. (10 Marks)
2. Writing a report based on visit to any one place such as Agro tourism Places, Dairy Project, and Poultry Farm, agriculture colleges/schools/university and writing a report including following points: planning and preparation, objectives, implication structure of Project, opinion And Feedback. (10 Marks)
 3. Prepare one lesson note based on any one of Team Teaching/ Collaborative Learning/ Models of Teaching (5 Marks)

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- पॉक्षे द बा . १९९८ भूगोलातील पाठयांश पध्दति व एकात्मता नूतन प्रकाशन पुणे .
- सांगळे शैलजा १९९८ दृष्टिक्षेपात स्पेशल भूगोल मेथड नूतन प्रकाशन पुणे .
- देशपांडे के ना दिक्षित उषा १९९४ परिसराभ्यास व भूगोल निराली प्रकाशन पुणे .
- पाटणकर ना.वि १९६३ भूगोलाचे अध्यापन मॉडर्न बुक डेपो प्रकाशन पुणे .
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Total Credits: 4; Marks: 100; Hours: 60 for theory excluding hours to be spent by student teacher for completing assignments

Note: Figures in the bracket show hours

Module 1: Understanding Curriculum and Aims of History and Political Science Education

(Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- Elaborate the nature and the structure of History and political Science Education
- Explain aims of History teaching.
- Plan for imbibing values through history and political science
- Explain changing concept of History and political Science Education teaching
- Write instructional objectives of teaching of a topic.
- Analyse features of existing curriculum of History and politics Education in the light of NCF 2005 and principles of curriculum development History and Political Science Education at secondary school level
- Understanding and explain Constitutional Vision for a Democratic India The making of the Constitution of India
- Establish correlation of History with other school subjects and life situations.

Contents

- 1. Nature and the structure of History and political Science Education:** characteristics and function of history and political science; The periodization of : World History, Indian History: Ancient, medieval, modern and contemporary societies, Thinking in terms of problems for analysis in History. Evidence, Facts, arguments, concepts, changing concepts principals (Evidence, facts, arguments, categories and perspective; Distinctions between fact and opinion and between opinion, bias and perspective; Evidence-based History teaching; Primary sources and the construction of History (1)
- 2. Aims of teaching History and Political Science education (1)**
 - Developing critical thinking and insight ,international understanding , scientific attitude and scientific temper
 - Acquire the skills to understand the method and process of that lead to exploration knowledge in history
 - Relate education to the political science and other social sciences
 - Solving problems of everyday life and relate past ,present and future
- 3. Knowledge** (factual, conceptual and procedural), Skills, competencies (Content, contextual, transactional, preparing teaching aids, management, evaluation) and commitment required (towards learner, towards subject, profession, society, values) for Proficiency in history teaching (2)

4. Meaning and structure of History and politics Education, elements of content analysis (3)
5. **Values and Learning History:** Constitutional Vision for a Democratic India The making of the Constitution of India Social Justice, Liberty, Equality, Dignity, Socialism, Secularism: Imbibing the values of honesty, integrity, cooperation, concern for life and preservation of environment, health, peace, equity equality (2)
6. Objectives at upper primary and secondary school level as given by State curriculum(1)
7. Determining acceptable evidences that show learners' understanding with the help of Bloom and Anderson's hierarchy of objectives of teaching (2)
8. Expectations about teaching in NCF 2005, General principles of history and politics curriculum development and Trends in history and politics curriculum; Consideration in developing learner centered curriculum in History and politics, Analysis of Features of existing curriculum of Education at upper primary and secondary school level and textbooks (2)
9. Establishing correlation of History and Political Science Education with other school subjects and life (1)

Module 2: Planning of Teaching History and Political Education (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- plan for teaching major concepts, principles of History and Political Science Education at school level
- explain importance and characteristics of planning teaching –learning of history
- design co-curricular activities for History and Political Science Education at school level

Contents:

1. Major Concepts, principles and theories in history and politics curriculum at Secondary School level: Evidence, facts, arguments, categories and perspective; Distinctions between fact and opinion and between opinion, bias and perspective; Evidence-based History teaching; Primary sources and the construction of History Thinking in terms of problems for analysis in History. Social Formations in History Different social formations in History and the periodisation of World History; The periodisation of Indian History: Ancient, medieval, modern and contemporary societies
 - State-formation and different types of states in History and politics
 - Capitalism, democracy and citizenship (Case Studies: American Revolution/French Revolution)
 - Fascism and dictatorships (Case Study: Germany or Italy of the inter-war period).
 - Select Issues of Social Change in Indian History
 - Culture, social stratification and social change in India; Caste and class in Indian society

- Shared religious cultures and conflicts between religious communities in India
 - Gender differentials and how these cut across caste and class structures as well as religious communities. (Case Study: India)
 - Interactive, constructivist and critical pedagogies in History
 - Going beyond the textbook; getting children to craft little nuggets of History from primary sources (5)
2. Planning for teaching-learning history : (5)
- Importance and characteristics of good planning
 - Identification and organization of concepts for teaching-learning of history
Instructional materials required for planning teaching-learning of history and learners' participation in developing them
 - Identifying and designing teaching-learning experiences; Planning field visits(museum, fort, historical places, etc.), Organizing activities, experiences, making groups, planning ICT applications in learning Planning for organizing various curricular activities, such as debate, discussion, drama, poster making on issues related to history
3. Design co-curricular activities for History and Political Science Education at school level
- Organizing events on specific days such as Constitution Day, History Day, Human rights Day, Women's day, Independence Day, Non violence Day, Republic Day, international peace day, etc.
 - Planning and organizing field experiences, history club, history exhibition (5)

Module 3: Facilitating learning of history education (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- use various methods and models
- facilitating learners for self-study
- using Small Group and Whole Group Instruction strategies through Cooperative and Collaborative approaches
- using learning resources for history & political science Education

Content

1. Pedagogical shift from history and politics as fixed body of knowledge to process of constructing knowledge(1)
2. Using narration/explanation and demonstrations for scaffolding (1)
3. Using inquiry based strategy for teaching thinking skills and construction of knowledge through Using narration/explanation, storytelling, demonstration ,social inquiry , use of sources, inductive thinking , guided discovery, Problem solving, Project Based Learning, organizing experiences s activities (5)
4. Facilitating learners for self-study through use of computers, online learning, using activity Packages (2)

5. Using Small Group and Whole Group Instruction strategies through Cooperative and Collaborative approaches to learning, Brain storming, Role Play and Dramatization, Group Discussion, Simulation and Games, Quiz (3)
6. Using learning resources for history and political science EducationHistory room, audio and visual aids, museum, Historical places, visit to local governing body (3)

Module 4: Evaluating Student learning and professional growth of teacher (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- explain concept of continuous and comprehensive evaluation
- develop indicators for performance assessment in history and politics education
- construct various tools for formative and summative evaluation in history and politics education
- understand importance and ways to develop professionally
- plan for an action research

Contents :

1. Concept and importance of continuous and comprehensive evaluation (CCE), formative and summative evaluation as constructivist Perspective in history education (2)
2. Developing framework and indicators for performance assessment in history: Learners record of observations; Field diary, herbarium and collection of materials; Oral presentation of learners work in social science, Portfolio; Assessment of project work in the field; assessment of participation in collaborative learning (3)
3. Construction of test items (open-ended and structured) in history and administration of tests. Types of questions, best suited for examining/assessing/understanding the different aspect of Social Sciences; Questions for testing quantitative skills, Questions for testing qualitative analysis; Open-ended questions. Open-book tests: Strengths and limitations evaluating answers: What to look for? Assessing projects: What to look for? (3)
4. Exploring aims and objectives in history not assessed in formal examination system and their evaluation through various curricular and co-curricular activities (1)
5. Professional development for history teachers through (2)
 - Participation in seminar, conferences
 - Computer and online resources
 - Collaboration of school with colleges, universities and other institutions
 - Books, Journals and periodicals
 - Reflective practices of history teachers
 - Field visits
 - Use of Feedback from learners, colleagues and self
6. Teacher as a researcher: Learning to understand how children learn history through research, action research in history. (3)

7. Participating in social activities such as exhibitions, history fair for development of historical approach and scientific attitude for popularizing history education (1)

Assignments: (Marks 25)

1. Organizing a history exhibition in group for School students/society and writing a report including following points: Planning and execution of exhibition, feedback obtained and reflections on experiences (10 Marks)
2. Writing a report based on visit to any one place such as historical places, museum etc. and present in group / (10 Marks)
3. Prepare one lesson note based on any one of Team Teaching/ Collaborative Learning/ Models of Teaching (5 Marks)

Reference Book

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Course 7:6: Subject Education: Science and Technology Education

Total Credits: 4; Marks: 100; Hours: 60 for theory excluding hours to be spent by student teachers for completing assignments

Note: Figures in the bracket show hours for curriculum transaction

Module 1: Understanding Curriculum and Aims of Science and Technology (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- explain the nature and structure of science
- understand the aims of Science education
- plan for imbining values through Science teaching
- write instructional objectives of teaching of a topic
- analyze features of existing curriculum of Science and Technology in the light of NCF 2005 and principles of curriculum development
- establish correlation of Science with other subjects

Contents :

1. Nature and Structure of Science: Characteristics and functions of Science and Technology, Branches of Science; Facts, concepts, principles, laws and theories in context of science (3)
2. Aims of teaching Science and Technology:(2)
3. Developing scientific attitude and scientific temper
4. Nurturing the natural curiosity, aesthetic senses and creativity in Science
5. Acquiring the skills to understand the method and process of science that lead to exploration, generation and validation of knowledge in science
6. Relating Science education to the environment (natural environment, artifacts and people)
7. Solving problems of everyday life
8. Values and Learning Science: Imbining the values of honesty, integrity, cooperation, concern for life and preservation of environment, health, peace, equity (2)
9. Objectives at upper primary and secondary school level as given by State curriculum (1)
10. Determining acceptable evidences that show learners' understanding with the help of Bloom and Anderson's hierarchy of objectives of teaching (2)
11. Expectations about constructivist science teaching in NCF 2005, General principles of curriculum development and Trends in Science curriculum; Consideration in developing learner centered curriculum in science, Analysis of Features of existing curriculum of science and technology at upper primary and secondary school level and textbooks(4)
12. Establishing correlation of Science with other school subjects and life(1)

Module 2: Planning of teaching Science and Technology (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- explain importance and characteristics of planning
- plan for teaching major concepts, principles and theories of Science and Technology at school level
- design co-curricular activities for Science learning

Contents

1. Importance and characteristics of good planning(1)
2. Planning for designing learning experiences, field visits, activities and developing instructional material for teaching following content:(12)
Properties and states of matter, structure of atom, Plant and animal cells, classification of plants and animals, diseases and their prevention, kinematic equations, modern periodic table, Electricity, lenses and mirrors, life processes, life cycle, Origin of life and evolution, Heat, Electricity, Magnetism, Light, Contribution of eminent scientists such as Isaac Newton, Dalton, Neils Bohr, Darwin, J. C. Bose, C. V. Raman, Albert Einstein, etc.
3. Planning for organizing various co-curricular activities such as debate, drama, poster making on issues related to science/biology, Day celebrations such as Science Day, Earth Day, Environment Day, etc(2)

Module 3: Facilitating learning of Science and Technology (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- use various methods and models of teaching
- promote construction of knowledge
- facilitate self learning of Science
- promote cooperative learning
- use various learning resources

Content

1. Using narration/explanation and demonstrations for facilitating understanding (1)
2. Promoting thinking and construction of knowledge through Using Concept Attainment, Inductive Thinking, guided discovery, Problem solving, Project Based Learning, organizing experiments/laboratory activities (6)
3. Facilitating learners for self-study through use of computers, Internet resources-Websites, You Tubes, online learning, using activity sheets, assigning homework/assignments (2)
4. Using Small Group and Whole Group Instruction strategies through Cooperative and Collaborative approaches to learning, Brain storming, Role Play and Dramatization, Group Discussion, Simulation and Games, Quiz (3)
5. Using learning resources for teaching Science: (3)
 - Science laboratory
 - Audio and Visual aids
 - Community resources such as botanical garden, museum, aquarium, zoo, exhibitions

Module 4: Evaluating student-learning and Professional growth of teacher (Credit 1, Hours 15, Marks 25)

Objectives: After learning this module the student teacher will be able to-

- explain concept of continuous and comprehensive evaluation
- develop indicators for performance assessment in Science and Technology
- construct various tools for formative and summative evaluation in Science and Technology
- understand importance and ways to develop professionally
- plan for an action research

Contents :

1. Concept and importance of continuous and comprehensive evaluation, formative and summative evaluation as constructivist Perspective (2)
2. Developing framework and indicators for performance assessment in science: Learners record of observations; Field diary, herbarium and collection of materials; Oral presentation of learners work in biological science, Portfolio; Assessment of project work (both in the laboratory and in the field); assessment of participation in collaborative learning; Assessment of experimental work in science(3)
3. Construction of test items (open-ended and structured) in science and administration of tests (3)
4. Exploring aims and objectives in Science not assessed in formal examination system and their evaluation through various curricular and co-curricular activities (1)
5. Professional development for science teachers through (2)
 - Participation in seminar, conferences
 - Computer and online resources
 - Collaboration of school with colleges, universities and other institutions
 - Books, Journals and periodicals
 - Reflective practices of Science teachers
 - Field visits
 - Use of Feedback from learners, colleagues and self
6. Teacher as a researcher: Learning to understand how children learn science through research, action research in science. (2)
7. Organizing social activities such as science club, exhibitions, science fair for development of scientific attitude and popularizing science education (2)

Assignment :

1. Organizing a Science exhibition/ Science fair in group for School students/society and writing a report including following points: Planning and preparation of material for exhibition/fair. execution of exhibition/Science fair, feedback obtained and reflections on experiences (10 Marks)

2. Writing a report based on visit to any one place such as Science museum, Aquarium, Planetarium, Botanical garden, Zoo, Water purifying Plant, Industry/Factory etc. (10 Marks)
3. Prepare one lesson note based on any one of Team Teaching/ Collaborative Learning/ Models of Teaching (5 Marks)

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