

ಮಂಗಳೂರು



ವಿಶ್ವವಿದ್ಯಾಲಯ

(Accredited by NAAC with 'A' Grade)

ಕುಲಸಚಿವರ ಕಛೇರಿ  
ಮಂಗಳಗಂಗೋತ್ರಿ - 574 199

ಕ್ರಮಾಂಕ: ಮಂವಿ/ಶೈಕ್ಷಣಿಕ/ಸಿಆರ್34/2015-16/ಎ2

ದಿನಾಂಕ: 6/8/2016

ಅಧಿಸೂಚನೆ

ವಿಷಯ: ಎರಡು ವರ್ಷಗಳ ಬಿ.ಇಡಿ. ಪದವಿಯ ದ್ವಿತೀಯ ಸೆಮಿಸ್ಟರಿನ ಪರಿಷ್ಕೃತ ಪಠ್ಯಕ್ರಮದ ಬಗ್ಗೆ.

- ಉಲ್ಲೇಖ: 1) ಈ ಕಛೇರಿ ಪತ್ರ ಸಮ ಸಂಖ್ಯೆ ದಿನಾಂಕ: 29-2-2016.  
2) ದಿನಾಂಕ 26-7-2016 ರಂದು ನಡೆದ ಶೈಕ್ಷಣಿಕ ಮಂಡಳಿ ಸಭೆಯ ನಿರ್ಣಯ.

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ಉಲ್ಲೇಖ (2) ರಲ್ಲಿ ತಿಳಿಸಲಾದ ಸಭೆಯ ಅನುಮೋದಿಸಿರುವ ಎರಡು ವರ್ಷಗಳ ಬಿ.ಇಡಿ. ಪದವಿಯ ದ್ವಿತೀಯ ಸೆಮಿಸ್ಟರಿನ ಪರಿಷ್ಕೃತ ಪಠ್ಯಕ್ರಮವನ್ನು ಶೈಕ್ಷಣಿಕ ವರ್ಷ 2015-16ನೇ ಸಾಲಿನಿಂದ ಅನ್ವಯವಾಗುವಂತೆ ಜಾರಿಗೊಳಿಸಲಾಗಿದೆ. ಸದರಿ ಪಠ್ಯಕ್ರಮವನ್ನು ವಿಶ್ವವಿದ್ಯಾಲಯದ ವೆಬ್‌ಸೈಟ್ [www.mangaloreuniversity.ac.in](http://www.mangaloreuniversity.ac.in) ರಲ್ಲಿ ಪ್ರಕಟಿಸಲಾಗಿದೆ.

ಉಲ್ಲೇಖ (1) ರಲ್ಲಿ ತಿಳಿಸಿರುವ ಪತ್ರದೊಂದಿಗೆ ಕಳುಹಿಸಲಾದ ದ್ವಿತೀಯ ಸೆಮಿಸ್ಟರ್ ಬಿ.ಇಡಿ. ಪದವಿಯ ಪಠ್ಯಕ್ರಮವನ್ನು ಹಿಂಪಡೆದುಕೊಳ್ಳಲಾಗಿದೆ.

  
ಕುಲಸಚಿವರು

ರಿಗೆ:

- 1) ಪ್ರಾಂಶುಪಾಲರು, ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಬಿ.ಇಡಿ. ಪದವಿಯನ್ನು ನಡೆಸುವ ಎಲ್ಲಾ ಕಾಲೇಜುಗಳು.
- 2) ಕುಲಸಚಿವರು [ಪರೀಕ್ಷಾಂಗ], ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಮಂಗಳಗಂಗೋತ್ರಿ.
- 3) ಅಧ್ಯಕ್ಷರು, ಪದವಿಮಟ್ಟದ ಶಿಕ್ಷಣ ಅಧ್ಯಯನ ಮಂಡಳಿ, ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಮಂಗಳಗಂಗೋತ್ರಿ.
- 4) ಅಧೀಕ್ಷಕರು, ಶೈಕ್ಷಣಿಕ ವಿಭಾಗ, ಕುಲಸಚಿವರ ಕಛೇರಿ, ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ, ಮಂಗಳಗಂಗೋತ್ರಿ.
- 5) ರಕ್ಷಾ ಕಡತ.

**MANGALORE UNIVERSITY**

**TWO YEAR B.Ed: SYLLABUS OF II SEMESTER**

Course code	Course Title	Credits	Int. marks	Ext. marks	Total
2.1 Theory	Learning and Teaching Process.	4	20	80	100
2.2 Theory	Educational Evaluation	4	20	80	100
2.3 Theory	Pedagogic tools, techniques and approaches	4	20	80	100
2.4 Theory	Subject Specific Pedagogy (Any two)	4	20	80	100
2.5 EF	School lessons and reflective diary	2	50		50
2.6 EPC	Research Project	2	50	-	50
2.7 EF	Field assignments	2	50	-	50
2.8 EF	Block teaching and Field work	2	50	-	50
		24			600

**Note: 2.4 Subject Specific Pedagogy (Any Two): Includes the following subjects.**

Course Code	Subject Specific Pedagogy
2.4.1	Kannada
2.4.2	English
2.4.3	Hindi
2.4.4	Urdu
2.4.5	Sanskrit
2.4.6	Social Science
2.4.7	Geography
2.4.8	Physics
2.4.9	Chemistry
2.4.10	Biology
2.4.11	Mathematics
2.4.12	Commerce

**MANGALORE UNIVERSITY**

**SYLLABUS OF II SEMESTER**

**2.1 LEARNING AND TEACHING PROCESS**

**Contact Hours: 60**

**Credits: 04**

**Marks: 100**

**Objectives:** After completing this course the student-teachers will be able to:

1. Comprehend the theories of learning and intelligence and their applications for teaching children
2. Analyze the learning process, nature and theory of motivation
3. Describe the stages of teaching and learning and the role of teacher
4. Situate self in the teaching learning process
5. Analyze the scope and role of assessment in teaching process in order to introduce dynamic assessment scheme for educational set up towards enhanced learning.

**Unit 1: Human learning and Intelligence**

**17 hours**

- 1.1 Human learning: Meaning and definition
- 1.2 Learning theories:
  - Behaviourism: Pavlov's classical conditioning,  
Thorndike's connectionism  
Skinner's operant conditioning
  - Gestaltism : Learning by insight – Kohler
  - Constructivism and learning – meaning and principlesLearning theories and their implications to classroom teaching – learning
- 1.3 Intelligence: Concept and definition
  - : Triarchic Theory (Robert Sternberg),
  - : Theory of multiple intelligences (Howard Gardner)
  - : Concept and significance of emotional intelligence (David Goleman)
- 1.4 Creativity: Meaning and dimensions of creativity, characteristics of creative learners, measures to foster creativity of the learners.

**Unit 2: Learning process and Motivation**

**17 hours**

- 2.1: Sensation and perception: Meaning and process
- 2.2: Attention: Meaning and factors affecting attention
- 2.3: Memory: Meaning and Model of memory (Atkinson and Shiffrin)

Techniques to improve memory, Forgetting – meaning and causes for forgetting, ‘The Forgetting Curve’ by H. Ebbinghaus

- 2.4: Motivation: Meaning Maslow’s theory of hierarchy of needs, Extrinsic, intrinsic and achievement motivation, Measures to enhance motivation levels of the learners.

### **Unit 3: Teaching – learning process**

**16 hours**

- 3.1: Meaning of teaching – learning process, maxims of teaching
- 3.2: Stages of teaching and learning: Plan, implement, evaluate and reflect, Acquisition, Maintenance and generalization
- 3.3: Learning environment: physical aspects, Psychological aspects – classroom climate, reduction of the burden of learning, fear of failure Vs Hope of success, Joyful learning
- 3.4: Teacher as a leader: as a transformative leader, as a facilitator of learning, autonomy for learners, providing scope for free and creative expression for the learners, empathizing the learners.

### **Unit 4: Overview of Assessment and school Evaluation system 10 hours**

- 4.1: Assessment: Conventional meaning and constructivist perspective
- 4.2: ‘Assessment of learning’ and ‘assessment for learning’ – meaning and differences.
- 4.3: The role of the teacher in continuous and comprehensive assessment – Constructivist approach
- 4.4: Revisiting key concepts in school evaluation: Filtering learners, pros and cons of no detention policy, internal-external assessment – proportion and emphasis, Options for improvement, pros and cons of board examinations

### **Suggested Topics / Activities for assignments (any one)**

- 1) Case study of intelligent or creative learners.
- 2) Prepare a brief report about the application of multiple intelligences theory to classroom teaching – learning
- 3) Enlist a few techniques of improving the retentive power of your learners.
- 4) Prepare a paper on how you would improve your power of memory by using pneumatic devices.
- 5) “There is no place for competition in learning” – Record your views on this theme from a psychological perspective.
- 6) Present a paper on the topic: ‘Can learning ever be a burden?’
- 7) Discuss about the advantages and disadvantages of the ‘No detention policy’
- 8) Discuss about the present system of continuous and comprehensive evaluation at the school level.
- 9) Conduct a survey of the opinions of the Secondary school teachers / pupils regarding CCE.
- 10) Give a plan of activities that you would take up to foster creative capabilities among your learners.

**Note:** The College is free to suggest any other assignment suited to the subject

## **REFERENCES:**

- Amin, N. (2002). Assessment of Cognitive Development of Elementary School Children: A Psychometric Approach. Jain Book Agency, New Delhi.
- Chauhan, S.S. (2013). Advanced Educational Psychology. Jain Book Agency, Delhi.
- King-Sears, E.M. (1994). Curriculum Based Assessment in Special Education. Singular Publishing Group, San Diego, CA.
- Panch, R. (2013). Educational Psychology: Teaching and Learning Perspective. McGraw Hill Education (India) Private Limited, New Delhi.
- Paul, P. (2009). Language and Deafness. Singular publication.
- Salvia, John, Ysseldyke, James, E. And Bolt, Sara. (2007). Assessment in Special and Inclusive Education. Houghton Mifflin Company, Boston.
- Whitcomb, S., & Merrell, K.W. (2012). Behavioral, Social, and Emotional. Assessment of Children and Adolescents, Routledge, New York. 13.
- Woolfolk, A., Misra, G., & Jha, A.K. (2012). Fundamentals of Educational Psychology, (11th edn). Pearson Publication, New Delhi.
- Geisinger, K.F. (2013). APA Handbook of Testing and Assessment in Psychology. American Psychological Association, USA.
- Guskey, T. R., & Bailey. J (2000). Grading and Reporting. Thousand Oaks. Corwin King, CA.
- Howell, K. W., & Nolet, V. (2000). Curriculum-Based Evaluation: Teaching and decision making. Wadsworth, Ontario.
- McMillan, J. H. (2001). Classroom Assessment: Principles and Practice for Effective Instruction. Allyn and Bacon, London.
- Nevo, D. (1995). School based Evaluation. Pergamon Publishing, Oxford. 25. Salvia, J., & Ysseldyke. J.E. (1998). Assessment. (7th ed) Houghton Mifflin, Boston.

## **2.2 EDUCATIONAL EVALUATION**

**Contact Hours: 60**

**Credits: 04**

**Marks: 100**

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

- Explain Bloom taxonomy of educational objectives.
- Explain concepts, characteristics and needs of evaluation.
- Analyse the role of evaluation in teaching learning process.
- Explain the characteristics, importance of different approaches and types of Evaluation.
- Explain the characteristics and areas of different techniques of evaluation.
- Apply appropriate techniques and tools to evaluate their student learning in different areas.
- Prepare valid and reliable tools to understand their field based assignment.
- Document and report student learning by marks system as well as grading system.

### **Unit 1: Educational Evaluation and Measurement**

**15 hours**

- 1.1 Meaning, Concept, Characteristics of Evaluation and Measurement
- 1.2 Objectives: Meaning of Educational Objectives, Instructional Objectives, Specific Objectives and Behavioural Objectives; Bloom's Modified Taxonomy of Educational Objectives (2001).
- 1.3 Learning Experience: Meaning, relationship between Learning Experience and Evaluation
- 1.4 Reporting Evaluation Results: Grading, Concept and its relevance, Credits: Grade and Course Certification.

### **Unit 2: Tools and Techniques of Evaluation**

**15 hours**

- 2.1 Formative and Summative Evaluation: Meaning, Characteristics and Use; Process and Product Evaluation.
- 2.2 Continuous and Comprehensive Evaluation: Meaning, Concept, Characteristics, Significance.
- 2.3 Techniques and Tools of Evaluation: Oral, Written –Essay, Short Answer, Objective – Meaning, Types and Characteristics, Performance Test.
- 2.4 Evaluation Tools: Rating Scale, Check-list, Questionnaire and Anecdotal Records: Meaning, Procedure of Construction and Use.

### **Unit 3: Types of Evaluation**

**10 hours**

- 3.1 Teacher made Test: Meaning, Characteristics; Achievement Test: Construction, Use; Diagnostic Test: Concept, Characteristics and Construction.
- 3.2 Unit Test: Concept, Characteristics, Construction. Preparation of a well Balanced Question Paper.
- 3.3 Standardised Test: Meaning, Characteristics and Procedure of Construction.
- 3.4 Question Bank: Concept, Procedure, importance.

#### **Unit 4: Basics of Educational Statistics**

**20 hours**

- 4.1 Educational Data: Meaning of Raw Score, Data, Need, ways of describing data; Preparation of Frequency Distribution, Methods of Graphical representation of Data-frequency Polygon, Histogram, Pie Graph, Normal Probability Curve :Procedure of Construction, Use.
- 4.2 Measures of Central Tendency: Mean, Median, Mode (Calculation, Use)
- 4.3 Measures of Variability: Range, Quartile Deviation, Mean Deviation: Meaning, Use; Standard Deviation: Meaning, Calculation, Use.

Correlation: Concept, Measures of Rank Difference Correlation (Calculation)

#### **Suggested Topics / Activities for assignments (any one)**

- Prepare proper question paper for any one of the subject of elementary/ secondary or senior secondary level.
- Prepare any two tolls to evaluate students in 10 scholastic areas.
- Prepare a unit test on any one subject of elementary/ secondary or senior secondary level.
- Critical evaluation of any one question paper of any one subject at elementary/ secondary or senior secondary level.
- Prepare diagnostic test based on its results of a unit test
- Prepare a CRT on any one unit of instruction.
- Prepare a balanced question paper and report its pilot validation.
- Critical analysis of S.S.L.C Board question paper of any subject.
- College is free to give activity related to the content matter of the subject.

#### **REFERENCES:**

1. Dandekar W.N. - Evaluation in Schools
- 2.
3. Garrett Henry E. - Statistics in Education and Psychology
4. Green, Jorgensen and Gerberich - Measurement and Evaluation in the secondary schools.
5. Ebel Robert L. (1979) – Essentials of Educational measurement.

6. Mohammad Shaj Khan - Evaluation in Schools (3rd ed 1986)
7. E.L Thorndike(1970) - Measurement & Evaluation in Psychology.
8. Singh & Raj - Techniques of measurement and Evaluation
9. S.S.Mathur – Kothari commission`s report on evaluation
10. Bharat singh – Modern educational Evaluation and Measurement.
11. S.R. Vashist – Theory of Educational Evaluation.
12. Chaya Shukla – Assessment and Evaluation in higher education
13. Saritha Kumari – Education, Assessment, Evaluation & remedial.
14. G. Viswanathappa (2015) – Assessment of learning; Book on Evaluation.
15. Srivastava. K.S. (1989) – Comprehensive Evaluation in schools, N.C.E.R.T, New Delhi.
16. Patel Rambhai. N. (2001) – Educational Evaluation, Theory and Practice.



## 2.3 PEDAGOGIC TOOLS, TECHNIQUES AND APPROACHES

**Contact Hours: 60**

**Marks: 100**

**Credits: 4**

**Objectives:** At the end of the course, the student-teachers will be able to,

- Understand Pedagogy and incorporate effective pedagogical approaches to teaching.
- Understand the Interrelationship of Strategies , methods, and approaches in Teaching –Learning process
- Develop capacity to create learning environment and provide instructional experience through Models of Teaching.
- Develop the skill of using different Teaching techniques
- Adopt different E -resources for effective teaching
- Apply the Teaching Learning strategies, methods, approaches and techniques to plan and execute the lessons during Practice in Teaching

### **Unit 1: Introduction to Pedagogy**

**15 hours**

- 1.1 Pedagogy – Concept, Critical Pedagogy – Concept and Characteristics
- 1.2 Pedagogical Analysis – Task Analysis, Content Analysis, Performance Analysis: Concept, Characteristics and Applications
- 1.3 Teaching Strategies and Methods – Meaning, Characteristics, Interrelationship of Teaching Cycle, Teaching methods and Teaching strategies
- 1.4 Teaching Competencies – Components, Significance and its Conceptual use.

### **Unit 2: Teaching – Learning: Strategies, Methods and Approaches**

**15 hours**

- 2.1 Active learning Strategies – Meaning, Types: Individual, small and large group strategies: Concept, Characteristics and Classroom Application
- 2.2 Approaches of Teaching –Expository, Enquiry, Dialectical, Discovery -Individual, Group, Guided Discovery: Concept, Characteristics, Procedure, Merits and Limitations
- 2.3 Methods of Teaching – Learner Centred Approach, Learning Centred Approach: Concept and characteristics
- 2.4 Techniques of Teaching – Concept, Types: Role Playing, Discussion, Narration, Storytelling, Story Board – Meaning and use

### **Unit 3: Teaching and Learning Models**

**15 hours**

- 3.1 Models of Teaching: concept, Characteristics, Fundamental elements, Families of Models of Teaching: Historical, Philosophical, Modern Models- Classification
- 3.2 Families of Modern Models – Syntax, Application
- 3.3 Modern Models of Teaching -Information Processing Models- Inquiry Training Model, Concept Attainment Model; Personal Models - Syntetics (making familiar to strange)
- 3.4 Individualized Instruction – Concept and characteristics; Programmed Instruction – Concept, Principles and types - Linear and Branching, Merits and Limitations

### **Unit 4: Resources to teaching**

**15 hours**

- 4.1 Print material – Workbooks, Handouts, Performance tasks/ material -Homework Exercise and Practice Material
- 4.2 E–Resources – Learning Management System, Types: Open Educational Resources (OER) and Proprietary Resources

4.3 Community Resources – Field trips and Educational Tour, Exhibitions, ICT Resources, Library Resources

4.4 Learning packages – Development and use

**Suggested Topics / Activities for assignments (any one)**

- Write a report on innovative teaching strategies for Teaching -Learning process.
- Prepare a detailed report on different approaches to Teaching.
- Conduct a Brain storming session on any topic of your choice in Classroom Teaching and submit a report on it.
- Prepare Individualised Learning Material (Linear Method) for any one of the topics related to this course.
- Prepare a list of resources and its use in Classroom Teaching.
- Prepare a lesson plan on any one of the Modern families of Teaching Models

**REFERENCES**

1. Chakravathy, R., & Murthy, P. (2012). *Information Technology and Education* . Brazil: Pacific Books International .
2. Dash, B. (2011). *A Text Book of Educational Technology*. New Dlehi: Wisdom Press.
3. Guddadanveri, D. P., & Prakashana, V. (2012). *Advanced Educational Technology and Teaching skills* . Gadag: Vikas Publishers .
4. Nehru, D. R. (2013). *E-Learning Theory and Practice*. New Delhi: A.P.H Corporation .
5. Patil, S., Dange, J., C, G., & Sharma, M. P. (2012). *ICT In Education: Recent Trends*. Pratusha Publications .
6. R.S.Chauhan, D. (2014). *ICT in Education* . New Delhi: A.P.H Publishing Corporation .
7. Rao, V. (2005). *Instructional Technology*. New Delhi: A.P.H Publishing Corporation .
8. S, D. K., & Thanghasamy. (2006). *Instrcutional Technology and Curriculum Development* . New Delhi: Neelkamal Publications .
9. Sharma, P. (2013). *Digital Technology in Education* . New Delhi: Pearl Books.
10. Sharma, R. (2010). *Technological Foundation of Education* . Meerut: R. Lall Book Depot.
11. Siddiqui, M. H. (2012). *Educational Technology*. New Delhi: A.P.H Corporation .
12. Singh, D. Y., Sharma, D., & Upadhya, D. B. (2013). *Educational Technology: Techniques, Tests and Evaluation* . New Delhi: A.P.H Corporation .
13. Thamarasseri, I., & Parey, M. A. (2014). *Instructional Technology*. New Delhi: A.P.H Corporation .
14. Verma, M., & Sons, M. L. (2006). *Online Teaching, Tools and Methods*. New Delhi: A.P.H Corporation
15. Yadav, R. (1997). *An Advanced Educational Technology*. Chicago: Horizon Publishers.

1.4.1: ಶಿಕ್ಷಣಶಾಸ್ತ್ರ ಹಾಗೂ ಬೋಧನಾ ವಿಷಯವಾಗಿ ಭಾಷೆ- ಕನ್ನಡ

Contact Hours: 30  
Credits: 2

Marks: 50

ಉದ್ದೇಶಗಳು: ಈ ಪತ್ರಿಕೆಯನ್ನು ಅಧ್ಯಯನ ಮಾಡಿದ ನಂತರ ವಿದ್ಯಾರ್ಥಿ ಶಿಕ್ಷಕರು,

- ಭಾಷೆಗೆ ಸಂಬಂಧಿಸಿದ ಕೌಶಲಗಳನ್ನು ಕರಗತ ಮಾಡಿಕೊಳ್ಳುವರು.
- ಸಾಹಿತ್ಯದ ವಿವಿಧ ಪ್ರಕಾರಗಳ ಬೋಧನಾ ವಿಧಾನಗಳನ್ನು ಅರಿತುಕೊಳ್ಳುವರು.
- ಪದ್ಯ, ಗದ್ಯ ಮೊದಲಾದ ಪ್ರಕಾರಗಳಿಗೆ ಪಾಠ ಯೋಜನೆ ಹಾಗೂ ಘಟಕ ಯೋಜನೆ ರಚಿಸುವರು.
- ಕನ್ನಡ ಭಾಷಾಶಿಕ್ಷಕರ ಕರ್ತವ್ಯಗಳನ್ನು ತಿಳಿದುಕೊಳ್ಳುವರು.
- ಭಾಷಾ ಬೋಧನೆಯನ್ನು ಅನುಕೂಲಿಸುವ ಸಂಪನ್ಮೂಲಗಳ ಬಗ್ಗೆ ಒಳನೋಟ ಬೆಳೆಸಿಕೊಳ್ಳುವರು.
- ಭಾಷಾ ಮೌಲ್ಯಮಾಪನದಲ್ಲಿ ಸೂಕ್ತ ಸಾಧನ ಮತ್ತು ಹಿಮ್ಮಾಹಿತಿ ತಂತ್ರಗಳನ್ನು ಬಳಸುವರು.

ಘಟಕ 1: ಭಾಷಾ ಕೌಶಲಗಳ

- 1.1. ಆಲಿಸುವಿಕೆ ಉಪಕೌಶಲಗಳು , ವಿಧಗಳು ,ಮಹತ್ವ, ಉತ್ತಮ ಆಲಿಸುವಿಕೆ ,ಬೆಳೆಸುವ ಕ್ರಮಗಳು , ಆಲಿಸುವಿಕೆಯಲ್ಲಿ ಬಳಸುವ ಸಂಪನ್ಮೂಲಗಳು.
- 1.2. ಮಾತನಾಡುವಿಕೆ ಉಪಕೌಶಲಗಳು , ಮಹತ್ವ , ಮಾತನಾಡುವ ಕೌಶಲದಲ್ಲಿ ವಿವಿಧ ಚಟುವಟಿಕೆಗಳು, ಬಳಸಬಹುದಾದ ಸಂಪನ್ಮೂಲಗಳು.
- 1.3. ಓದುಗಾರಿಕೆ ಉಪಕೌಶಲಗಳು ಕನ್ನಡ ಭಾಷಾ ಬೋಧನೆಯಲ್ಲಿ ಗಟ್ಟಿ ಮತ್ತು ಮೌನವಾಚನದ ಮಹತ್ವ. ಓದುಗಾರಿಕೆಯ ವಿಧಗಳು ಓದುಗಾರಿಕೆ ಬೆಳೆಸುವ ಚಟುವಟಿಕೆಗಳು.
- 1.4. ಬರವಣಿಗೆ ಉಪಕೌಶಲಗಳು , ಉತ್ತಮ ಬರವಣಿಗೆಯ ಲಕ್ಷಣಗಳು , ಮಹತ್ವ , ಬರವಣಿಗೆಯ ಹಂತಗಳು, ಬರವಣಿಗೆ ಸುಧಾರಿಸುವ ಕ್ರಮಗಳು , ಚಟುವಟಿಕೆಗಳು ಕಥೆ , ಕವನ, ವರದಿ ರಚನೆ ಮೊದಲಾದವುಗಳು.
- 1.5. ಪರಾಮರ್ಶನಾ ಕೌಶಲ - ಉದ್ದೇಶಗಳು ಮತ್ತು ಮಹತ್ವ , ಶಬ್ದಕೋಶ,ವಿಶ್ವಕೋಶ, ಅಂತರ್ಜಾಲ , ವಿವಿಧ ಪುಸ್ತಕಗಳ ಪರಾಮರ್ಶನಾ ಕ್ರಮಗಳು.

ಘಟಕ 2: ಭಾಷಾ ಬೋಧನಾ ಮಾರ್ಗಗಳು ಲಿಖಿತಲಿಖಿತ ಭಾಷಾ ಬೋಧನ ವಿಧಾನಗಳು.

- 2.1 ದ್ವಿಭಾಷಿಕ ವಿಧಾನ ಅರ್ಥ, ತತ್ವಗಳು ಹಾಗೂ ಹಂತಗಳು
- 2.2 ಪ್ರತ್ಯಕ್ಷ ವಿಧಾನ ಅರ್ಥ ಹಾಗೂ ಹಂತಗಳು
- 2.3 ರಚನಾತ್ಮಕ ವಿಧಾನ- ಅರ್ಥ, ತತ್ವಗಳು,ರಚನಾತ್ಮಕ ಆಯ್ಕೆಗಳು,ಬೋಧನಾ ವಿಧಾನಗಳು.
- 2.4 ಪ್ರಾಸಂಗಿಕ ವಿಧಾನ- ಅರ್ಥ, ತತ್ವಗಳು, ಸನ್ನಿವೇಶ ನಿರ್ಮಾಣ ಮಾಡುವ ವಿಧಾನಗಳು.
- 2.5 ಸಂವಹನ ವಿಧಾನ- ಅರ್ಥ, ತತ್ವಗಳು,ಹಂತಗಳು.
- 2.6 ಸಂರಚನಾತ್ಮಕ ವಿಧಾನ- ಅರ್ಥ, ಹಂತಗಳು, ಭಾಷಾಕಲಿಕೆ ಅನುಕೂಲಿಸುವಲ್ಲಿ ಆಧುನಿಕ ವಿಧಾನಗಳು.
- 2.7 ಗದ್ಯ ಬೋಧನೆ- ಉದ್ದೇಶಗಳು ವಿಧಾನಗಳು-ಗದ್ಯ ಬೋಧನೆಯಲ್ಲಿ 5- ಜ ವಿಧಾನ-ಗದ್ಯ ಪಾಠಯೋಜನೆಗಳು
- 2.8 ಪದ್ಯ ಬೋಧನೆ- ಉದ್ದೇಶಗಳು ವಿಧಾನಗಳು-ಪದ್ಯಪಾಠ ಯೋಜನೆಗಳು.
- 2.9 ವ್ಯಾಕರಣ ಬೋಧನೆ- ಉದ್ದೇಶಗಳು ಬೋಧನ ವಿಧಾನಗಳು, ವ್ಯಾಕರಣ ಪಾಠ ಯೋಜನೆಗಳು
- 2.10 ಪತ್ರಲೇಖನ- ಇತರ ಪ್ರಕಾರಗಳ ಬರವಣಿಗೆ, ಬೋಧನೆ, ಬರವಣಿಗೆ, ಪತ್ರಲೇಖನಗಳು, ಉದ್ದೇಶಗಳು, ವಿಧಾನಗಳು ಪತ್ರಲೇಖನ,ಪಾಠ ಯೋಜನೆಗಳು.
- 2.11 ಪದಕೋಶ / ಶಬ್ದ ಸಂಪತ್ತು- ಪದಕೋಶದ ವಿಧಗಳು, ವಿಧಾನಗಳು, ಪದ್ಯ

ಗದ್ಯಗಳಲ್ಲಿ ಪದ ಸಂಪತ್ತಿನ ಬಳಕೆ, ಬಳಸುವ ಕ್ರಮಗಳು.

ಘಟಕ-3: ಭಾಷಾ ಬೋಧನಾ ವಿಚಾರಗಳು.

3.1 ಭಾಷಾ ಬೋಧನಾ - ಉದ್ದೇಶಗಳು, ನಿರ್ದಿಷ್ಟತೆಗಳು

ಮೌಲ್ಯ ಮಾಪನ ಮತ್ತು ಹಿಮ್ಮಾಹಿತಿ ಘಟಕ ಪರೀಕ್ಷೆ-ನೀಲ ನಕಾಶೆ

ಭಾಷಾ ಕಲಿಕೆ ಅನುಕೂಲಿಸುವಲ್ಲಿ ಸಂಪನ್ಮೂಲಗಳು-ಪಠ್ಯ ಪುಸ್ತಕ ಹಾಗೂ ಸ್ವರಚನಾ ಪಠ್ಯಗಳು

3.2 ಉತ್ತಮ ಭಾಷಾ ಶಿಕ್ಷಕನ ಅರ್ಹತೆಗಳು ಹಾಗೂ ಗುಣಲಕ್ಷಣಗಳು

ಪ್ರಾಯೋಗಿಕ/ ನಿಯೋಜಿತಕಾರ್ಯ(ಯಾವುದಾದರೊಂದು)

- ಪದಸಂಪತ್ತು ಬೆಳೆಸುವ ಅಭ್ಯಾಸಗಳು
- ಸೃಜನಾತ್ಮಕ ಪಠ್ಯ ಯೋಜನೆಗಳ ತಯಾರಿ
- ಭಾಷಾ ಬೋಧನೆಯನ್ನು ಅನುಕೂಲಿಸುವ ಜೀವನ ಚರಿತ್ರೆಗಳ ವಿಮರ್ಶೆ
- ಕವಿ ಕೃತಿ ಲೇಖನ ಯಾವುದಾದರೊಂದು ಕೃತಿಯ ವಿಮರ್ಶಾತ್ಮಕ ಸಮೀಕ್ಷೆ.
- ಕನ್ನಡ ಭಾಷಾ ಅಧ್ಯಾಪಕರ ಸಮಸ್ಯೆಗಳ ಸಮೀಕ್ಷೆ
- ಪಠ್ಯ ಪುಸ್ತಕ ವಿಮರ್ಶೆ.
- ಇತರ ಯಾವುದಾದರೊಂದು ಪಠ್ಯ ಸಂಬಂಧಿಸಿದ ಚಟುವಟಿಕೆಗಳು.

ಆಧಾರ ಗ್ರಂಥಗಳು/ ಆಕರ ಗ್ರಂಥಗಳು

1. ಅನಂತರಾಮ, ರಾ. (1983) 'ಕನ್ನಡ ಭಾಷಾ ಬೋಧನೆ' ಮೈಸೂರು: ಭಾರತೀ ಪ್ರಕಾಶನ, ಸರಸ್ವತಿಪುರಂ.
2. ಕೊಂಗವಾಡ, ಎನ್.ಬಿ. (1999) 'ಭಾಷೆ ಮತ್ತು ಕನ್ನಡ ಬೋಧನೆ', ಗದಗ: ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ
3. ಚಿದಾನಂದಮೂರ್ತಿ,ಎಂ. (1998) 'ಭಾಷಾ ವಿಜ್ಞಾನದ ಮೂಲ ತತ್ವಗಳು: ಮೈಸೂರು: ಡಿ.ವಿ.ಕೆ ಮೂರ್ತಿ, ಕೃಷ್ಣಪುರಂ.
4. ಧಾರವಾಡಕರ, ರಾ.ಯ. (2004) ' ಕನ್ನಡ ಭಾಷಾ ಶಾಸ್ತ್ರ', ಮೈಸೂರು: ಗೀತಾ ಬುಕ್ ಹೌಸ್ ಪ್ರಕಾಶಕರು
5. ಪಂಡಿತ, ಕೃಷ್ಣಸಿ. (1990) 'ಶಾಲೆಗಳಲ್ಲಿ ಕನ್ನಡ ಬೋಧನೆ', ಮೈಸೂರು: ಗೀತಾ ಬುಕ್ ಹೌಸ್.
6. ಪಟ್ಟೇದ, ಎಲ್.ಬಿ. (2007) 'ಸಿರಿಗನ್ನಡ ನುಡಿ ಬೋಧನೆ', ಗದಗ: ವಿದ್ಯಾನಿಧಿ ಪ್ರಕಾಶನ
7. ಪಟ್ಟಣಶೆಟ್ಟಿ, ಎಮ್.ಎಮ್. (2000) 'ಶಾಲಾ ಕಾಲೇಜುಗಳಲ್ಲಿ ಪರಿಣಾಮಕಾರಿಯಾದ ಬೋಧನೆಗೆ ಅಣು ಬೋಧನೆ', ದಾವಣಗೆರೆ: ಯು. ನೀಡ ಪಬ್ಲಿಕೇಶನ್ಸ್,
8. ಪರಗಿ, ಅನಸೂಯ.ವಿ. (1990) ' ಮಾತೃಭಾಷೆ ತತ್ವ ಮತ್ತು ಬೋಧನಾ ಮಾರ್ಗ', ಮಧುಗಿರಿ ಪುರವರ: ಅನಸೂಯ ಪ್ರಕಾಶನ
9. ರಮಣ, ಬಿ.ವಿ. (1979) 'ಕನ್ನಡ ನುಡಿ ಬೋಧನೆ' ವೀರಾಜ ಪೇಟೆ: ಸರ್ವೋದಯ ಬುಕ್ ಡಿಪೋ, ಚಿಕ್ಕಪೇಟೆ
10. Billiows, F.L. (1967) ' The Techniques of Language Teaching', London: Longman Green and Company, Ltd, 48 Grosvenar Street
11. Jahangira, N.K. and Singh, Ajit (1982) 'Core Teaching Skills: Micro Teaching Approach', Delhi: NCERT

## 2.4.2 SUBJECT SPECIFIC PEDAGOGY: ENGLISH

**Contact Hours: 30**

**Marks: 50**

**Credits: 2**

**Objectives:** On completion of this course the students will be able to

- Develop concerns for facilitating listening, speaking, reading and writing skills among the learners
- Employ different approaches and methods for teaching prose, poetry grammar and composition
- Design unit plans and lessons plans for teaching of prose, poetry, composition and grammar
- Learn responsibilities of an English teacher in school community
- Develop insights into the availability and use of resources for facilitating learning of English
- Use appropriate strategies for evaluating language learning and providing feedback to language learners

### **Unit – I: Acquisition Of Language Skills**

**10 Hours**

**1.1 Listening:** Sub skills of listening, importance of listening in English, approaches to develop aural/oral skill, materials and resources for developing the listening skill.

**1.2 Speaking:** Sub skills of speaking, importance of speaking skill, pronunciation, articulation, stress, rhythm, intonation, and ways of developing correct speech habits. Materials and resources for developing the listening skill.

**1.3 Reading:** Sub skills of reading, importance of oral and silent reading in English, intensive and extensive reading, skimming and scanning, methods of teaching oral reading, ways of developing reading and study skills including using dictionary, encyclopaedia etc.

**1.4 Writing:** Sub-skills of writing, importance and characteristics of good handwriting, ways of improving handwriting. Stages of writing, processes of writing formal and informal texts such as poetry, short story, letter, diary, notices, articles, reports, dialogues, speech, advertisement etc..

**1.5 Reference Skills:** Need and importance. Referring to dictionaries, thesaurus, encyclopaedia, web resources, books. Note making and note taking.

## **Unit –2: Approaches To Teaching of English as a Second Language**

**8 hours**

2.1 **Bilingual approach:** meaning, principles and procedure.

2.2 **Direct method:** meaning and procedure

2.3 **Structural approach:** meaning and principles, selection and gradation of structures, ways of teaching structures

2.4 **Situational approach:** Meaning and principles, ways of creating situations.

2.4 **Communicative approach-** meaning and principles, procedures followed in communicative approach.

2.5 **Constructivist approach:** its meaning and procedures ó 5-e method for facilitating learning of English

## **Unit – 3: Different Aspects of Teaching English**

**12 Hours**

3.1 **Teaching of prose-** Objectives and methods of teaching prose ó 5e method - writing lessons plans for the teaching of prose

3.2 **Teaching of poems** – objectives and methods of teaching of poems, writing lessons plans for the teaching of prose.

3.3 **Teaching of Grammar** - Objectives and methods of teaching grammar, writing lessons plans for the teaching of grammar

3.4 **Teaching of writing** – composing short paragraphs and letter writing ó objectives and methods, writing lessons plans for the teaching of composition.

3.5 **Enriching vocabulary-** Types of vocabulary, objectives and methods of introducing new words while teaching prose and poems, ways of enriching of vocabulary.

3.5 **Evaluation in English** -Objectives and specifications for Language Teaching, Writing Unit plans, Preparation of a unit test.

3.6 Resources for facilitating learning of English. Textbooks and teacher created texts.

3.7 Qualities of a good English teacher ó Responsibilities of an English teacher in the community.

### **Suggested Topics / Activities for assignments (any one)**

*Exercises to enrich vocabulary among secondary students.*

1. Innovative lesson plans for the teaching of prose, poetry and composition.
2. Reading biographies of English Poets and writers and making a presentation.
3. Critical analysis of any one poem or essay of a great poet or writer.

4. Studying the problems of English teachers through interview or brief survey.
5. Textbook analysis
6. Any other relevant activity based on the content.

## REFERENCES:

1. Anderson, Ann and Lynch Tony : Listening, Oxford University Press, 1988
2. Baruah T.C : The English teachers Handbook, Sterling publishers Pvt.,Ltd. 1984
3. Billows F.L: The Techniques of English Language Teaching, Longman Group Ltd., London 1961
4. Bright, J.A., and McGregor G.P: Teaching English as a Second Language, ELBS London, 1972.
5. Gordon B.S : The Teaching of English in free India, Christian Literature society, Madras, 1960.
6. Harris: Testing English, Tata McGraw Hill, Bombay, 1974
7. Hornby : Stage 1,2,3 & 4 Teaching of Structural words, Sentence patterns ELBS & OUP, London 1959 & 61.
8. Hubbard, P., Jones H: Thornton B and Wheeler, R.Training Course for TEFL,Oxford University press, 1987.
9. Menon & Patel : Teaching of English as a Foreign Language, Acharya Book, Depot, Baroda 1957.
10. Widdowson H.G. : Teaching Language as communication, OUP, London 1982.
11. Wilkinson, Andrew: Language and Education, Oxford University Press 1982.
12. Sharma K.L.: Methods & Principles of teaching English.
13. Kohli A L Techniques of Teaching English Language IX edition Dhanpal Rai & Sons Delhi (1984)
14. Ryburn W.H. & Parkinson. J.G. The teaching of English Language O U P London (1961)
15. Sachdeva. M.S A New Approach to Teaching of English Language in Free India Ludiana Prakash Publications (1976)
16. Allen. Teaching English Language as a Second Language Mc Graw hill 17. Bose K. Teaching of English Language A Modern Approach Doaba House Book Sellers & publishers, New Delhi (1979)

18. N.P. Pahuja. Teaching of English Anmol publications pvt ltd, New Delhi. 19. V.K. Nanda. Teaching of English Anmol publications pvt ltd, New Delhi. 20. Sathish C. Chadha Art and Science of Teaching English Surya publications, Near Govt Inter College, Meerut.
21. Prem Shankar. Teaching of English APH publishing corporation, New Delhi.
22. Menon& Patel, Educational Evaluation.
23. K VenugopalRao, Method of Teaching English Neel Kamal publications Pvt ltd, Hyderabad
24. Namitha Roy Choudhary Teaching English in Indian Schools APH Publication, New Delhi
25. Venkateswaran. Principles of Teaching English Vikas Publishing House, Pvt.Ltd.



Subject Specific Pedagogy : HINDI

Contact Hours : 30

Marks : 50

Credits : 2

उद्देश्य :

इस पत्रिका को अध्ययन करने के बाद विद्यार्थी शिक्षक,

- आवा कौशलों के विचार जानना।
- आवा शिक्षण को बाँधन करने समय विविध साधनों का प्रयोग।
- गद्य, पद्य, व्याकरण आदि प्रकार के निष्ठ पाठ्योजना की रचना।
- आवा मूल्यांकन के साधन और तंत्रों का प्रयोग।
- आवा शिक्षक के कर्तव्य जानना।

**2.4.3: : 2.4.4. SUBJECT SPECIFIC PEDAGOGY 6 URDU &**

**2.4.5. SUBJECT SPECIFIC PEDAGOGY 6 SANSKRIT**

**2.4.7 SUBJECT SPECIFIC PEDAGOGY - GEOGRAPHY**

**AS PER THE STATE SYLLABUS.**

## 2.4.6 SUBJECT SPECIFIC PEDAGOGY: SOCIAL SCIENCE

**Contact hours: 30**

**Marks: 50**

**Credits: 2**

**Objectives:** After completion of the course the students will be able to:

1. Understand the concept of Social Science.
2. Understand the aims of teaching Social Science.
3. To develop and understand different types of teaching resources.
4. To understand the correlation of Social Science with other subjects.
5. To apply techniques and methods of teaching Social Science.
6. To develop the skill of planning and its execution.

### **Unit 1- Understanding the concepts of Social Science**

**10 hours**

- 1.1 Aims and objectives of teaching Social Science
- 1.2 Historical thinking concepts (big six historical thinking concepts ó Peter Sexias & Morton)
- 1.3 Collingwood's approach to reconstruct historical imagination.
- 1.4 Geo literacy: Concept, need and ways to create awareness
- 1.5 Aims of teaching Social Science: History, Geography, Political Science
- 1.6 Correlation of Social Science with other school subjects: History and Literature, History and Political Science, Geography and Physical science, Geography and History.

### **Unit 2 – Learning resources and teaching technique**

**12 hours**

- 2.1 ó Learning resources:
  - a. Audio-visual resources: T.V., Films, Documentary- importance and uses
  - b. Visual resource: Maps, Models, Timeline, Globe, Atlas, Travelogue ó importance and uses.
  - c. Print media: Magazine, Newspaper, Archives-importance and uses
  - d. Online resources: Websites, Virtual tours -importance and uses.
- 2.2 ó Methods and Techniques of Social Science: Conventional Pedagogies- Source method, Interactive method, Field visit, Journey method, Regional method, Social enquiry.
- 2.3 ó Co-operative learning strategies: Think pair share, round robin, buzz, Gallery walk, Jig saw method.

### **Unit-3-Planning of Instruction & Evaluation:**

**8 hours**

- 3.1- Year Plan, Unit plan, Lesson Plan, Innovative planning (CCE)-Format and importance
- 3.2 Importance, Steps and Construction of Unit Test.

### **Suggested Topics/Activates for assignments (any one)**

- Participate in a field visit/virtual tour of any Historical site or Geographical site and write a report.
- Select any primary source that can be used to teach History and analyze the same using the 6C approach

- Choose any Cooperative learning strategy. Plan and conduct a 15 minutes lesson in your peer group to teach Social science.
- Choose any topic from a Social Science textbook. Design four activities and explain how you will facilitate correlation with different subjects.
- The college is free to introduce any other relevant and useful activity related to Social Science.

## **REFERENCES:**

1. Angelo A. T et.al. (1993) Classroom assessment Techniques A Handbook for College Teachers, San Fransisco Tossey ó Bass publisher.
2. BatraPoonam, Social Science Learning in Schools: Perspectives and Challenges, Sage Publications.
3. Burke, Peter (1991), New Perspectives on History Writing, Blackwell, Oxford Publications.
4. Arora, K.L., Bhugol Shikshan, Teaching of Geography
5. N.C.E.R.T. Practical Geography
6. O.P.Varma and E.G.Vedanayaga, Geography Teaching
7. R.P.Singh, Teaching of Geography
8. S.K.Kochhar, Methods and Techniques of Teaching
9. Sanjay Dutta and O.P.Garg, Teaching of Geography
10. Walker James, Aspects of Geography Teaching in School
11. Digumarti Bhaskara Rao(ed.) Techniques of Teaching Social, Sciences, Sonali Publications, Delhi
12. Kochar S.K. Teaching of History: Sterling publications
13. Joyce,B. & Weil, M (1997), Models of Teaching Prentice Hall Ire, New Jersey
14. Nayak, A.K. et. al: (2004) Classroom Teaching: Methods and Practice, A.P.H. Publishing Corporation. New Delhi
15. Teaching of social studies II (teaching social studies Pedagogy option, 2010 Education Development Center (EDC): Teachers College, Columbia University
16. Wadhwa, Modern methods of teaching history, Saru sons, New Delhi

## 2.4.8 SUBJECT SPECIFIC PEDAGOGY: PHYSICS

**Contact Hours: 30**  
**Credits: 2**

**Marks 50**

**Objectives:** On completion of course the Student Teacher will be able to

1. Understand the uses of different Learner Centered and Activity Centered Approaches
2. Understand the planning for Teaching of Physics
3. Understand the selection of various Methods and Models of Teaching to teach different topics in Physics
4. Understand the importance of Principles of Curriculum Construction in the Organisation of Physics Content
5. Understand different Curricula of Physics
6. Develop Skills in Analyzing the Content in Physics
7. Plan, Use and Maintain the Physics Laboratory systematically

### **Unit I- Curriculum Study In Physics**

**- 06 Hours**

- 1.1 Curriculum: Meaning and Principles
- 1.2 Organisation of the Curriculum: Psychological, Logical, Spiral and Topical Curriculum
- 1.3 Curriculum Development Project: Salient Features- PSSC
- 1.4 Recommendation of Curriculum Framework: NPE-1986, NCF-2005
- 1.5 Main Features of Science Syllabus with special reference to Physics: Karnataka State, CBSE and ICSE

### **Unit: II- Planning And Organization Of Lessons In Physics**

**12 Hours**

- 2.1 Analysis of the Physics Content as Facts, Concepts, Principles, Theories and Laws with reference to 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> Standard of Karnataka State Syllabus.
- 2.2 Unit Plan: Meaning, Importance, Components, Steps and Format
- 2.3 Unit Test: Concept, Construction and Administration
- 2.4 Lesson Plan: Meaning, Need, Importance, Steps and Format
- 2.5 Resource Unit: Meaning and Characteristics

### **Unit: III- Approaches, Methods And Resources Of Teaching Physics**

**12 hours**

- 3.1 Approaches: Learner Centered and Activity Centered, Inductive and Deductive: Characteristics, Advantages and Disadvantages
- 3.2 Methods: Lecture cum Demonstration, Project, Problem Solving, Laboratory and Programmed Instruction: Characteristics, Steps, Advantages and Disadvantages (Examples to be chosen from Secondary School Physics Curriculum)
- 3.3 Models of Teaching: Concept Attainment Model and Inquiry Training Model
- 3.4 Physics Laboratory: Importance, Designing, Planning, Equipping, Maintenance of Equipments and Records, Common accidents and Safety Measures
- 3.5 Community Resources- Meaning and Importance

### **Suggested Topics / Activities for assignments (any one)**

1. Preparing a Report on use of Physics in daily life.
2. Survey of Laboratory facilities of any two Secondary School with practical suggestion for improvement
3. Identifying and writing all possible Instructional Objectives on any topic of Physics.
4. Preparation of Programmed Instruction Learning Material.
5. Preparing a Report on by Analysing Curriculum of VIII and IX standard.
6. Preparation of any two Improved Working Model/Apparatus and write a Report
7. Preparation of Work Book/Laboratory Manual
8. Critical Study of Physics Questions from Science Question Papers of Standard X
- 9 Collect the names of recent Indian Physicists and prepare a report about their contribution to Physics

The college is free to introduce any other relevant and useful activity related to Physics.

### **REFERENCES:**

1. Ahmed, Shaikti R. (1983) Management of Laboratory Science Programme: Report of Orientation Programme in Educational Planning and Administration, New Delhi; NIEPA Mimeo.
2. Bhandula & Chand (1986) Teaching of Science, Prakash Brothers, Ludhiana
3. Bose, A. H. Sood, J.K. and Vaidya, N. (1970), Strategies in Science Education, Regional Institute of Education, Ajmer.
4. Carin/Sund Teaching Science Through Discovery; C.E. Merrill Publishing Co. London.
5. Cleaveland J. M. (1964) Physical Science C.E. Merrill Publishing Co., Ohio.
6. Craig (1958) Science for the Elementary School Teacher; Ginn & Co., New York
7. Das R. C. (1985) Science Teaching in Schools, Sterling Publishers, Pvt. Ltd., New Delhi.
8. Fensham P. J. et. al., (1994) The Content of Science : A Constructive Approach to its Teaching & Learning. The Falmer Press, Washington D.C.
9. Gupta S. K. (1983) Technology of Science Education, Vikas Publishing House, Pvt. Ltd., New Delhi.
10. Gupta S. K. (1985) Physical Science Teaching in Secondary Schools, Sterling Publishers, Pvt. Ltd., New Delhi.
11. Jacobson, David et al., (1985) Methods for Teaching: A Skills Approach Charles, E. Merrill Publishing Co., Columbus.
12. Jennings Terry (1987) The Young Scientist Investigator: The Teacher Manual of Oxford University Press.
13. Joseph-Bradwin, et al. (1998), Sourcebook for Physical Science. Brandwain-Watson-Blackwood.
14. Mangal, S.K. (1995); Teaching of Physical and Life Science, Avg. Book Depot. : Delhi.
15. Nagel E. (1961) The Structure of Science, Harcourt Brace and World Inc., New York 130
16. Nair C. P.S., (1971) Teaching Science in Our Schools. S. Chand & Co., New Delhi.
17. Schwab J. J. and Bradwein P.F. (1962) The Teaching of Science, Marks, Harvard University Press, Cambridge.
18. Sharma, R.C. (1995); Modern Science Teaching, Dhanpat Rai & Sons, Delhi

## 2.4.9 SUBJECT SPECIFIC PEDAGOGY: CHEMISTRY

**Contact Hours: 30**

**Marks 50**

**Credits: 2**

**Objectives:** On completion of course the Student Teacher will be able to

1. Understand the uses of different Learner Centered and Activity Centered Approaches
2. Understand the planning for Teaching of Chemistry
3. Understand the selection of various Methods and Models of Teaching to teach different topics in Chemistry
4. Applying the knowledge of Chemistry to develop Scientific Thinking and Scientific Outlook.
5. Understand the importance of Principles of Curriculum Construction in the Organisation of Chemistry Content
6. Understand different Curricula of Chemistry.
7. Develop Skills in Analyzing the Content in Chemistry
8. Plan, Use and Maintain the Chemistry Laboratory systematically
9. Appreciate the contribution of Chemistry in serving the community in the field of Agriculture, Industry, Health and Environment

### **Unit I- Curriculum Study In Chemistry**

**06 Hours**

- 1.1 Curriculum: Meaning and Principles
- 1.2 Organisation of the Curriculum: Psychological, Logical, Spiral and Topical Curriculum
- 1.3 Curriculum Development Project: Salient Features- Chemical Bond Approach
- 1.4 Recommendation of Curriculum Framework: NPE-1986, NCF-2005
- 1.5 Main Features of Science Syllabus with special reference to Chemistry: Karnataka State, CBSE and ICSE

### **Unit: Ii- Planning and Organization Of Lessons In Chemistry**

**12 Hours**

- 2.1 Analysis of the Chemistry Content as Facts, Concepts, Principles, Theories and Laws with reference to 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> Standard of Karnataka State Syllabus.
- 2.2 Unit Plan: Meaning, Importance, Components, Steps and Format
- 2.3 Unit Test: Concept, Construction and Administration
- 2.4 Lesson Plan: Meaning, Need, Importance, Steps and Format
- 2.5 Resource Unit: Meaning and Characteristics

### **Unit: Iii- Approaches, Methods and Resources Of Teaching Chemistry**

**12 hours**

- 3.1 Approaches: Learner Centered and Activity Centered, Inductive and Deductive: Characteristics, Advantages and Disadvantages
- 3.2 Methods: Lecture cum Demonstration, Project, Problem Solving, Laboratory and Programmed Instruction: Characteristics, Steps, Advantages and Disadvantages (Examples to be chosen from Secondary School Chemistry Curriculum)
- 3.3 Models of Teaching: Concept Attainment Model and Inquiry Training Model
- 3.4 Chemistry Laboratory: Importance, Designing, Planning, Equipping, Maintenance of Equipments and Records, Common accidents and Safety Measures
- 3.5 Community Resources- Meaning and Importance

**Suggested Topics / Activities for assignments (any one)**

1. Preparing a Report on use of Chemistry in daily life.
2. Survey of Laboratory facilities of any two Secondary School with practical suggestion for improvement
3. Identifying and writing all possible Instructional Objectives on any topic of Chemistry.
4. Preparation of Programmed Instruction Learning Material.
5. Preparing a Report on by analysing curriculum of VIII and IX standard.
6. Preparation of any two Improvised Working Model/Apparatus and write a Report
7. Preparation of Work Book/Laboratory Manual
8. Critical Study of Chemistry Questions from Science Question Papers of Standard X
- 9 Collect the names of recent Indian Chemists and prepare a report about their contribution to Chemistry

The college is free to introduce any other relevant and useful activity related to Chemistry

## REFERENCES:

1. Anderson, R.D et al. (1992). Issues of Curriculum Reform in Science, Mathematics and HigherOrder Thinking Across the Disciplines. The Curriculum Reform Project.USA: University ofColorado.
2. Brandwein Paul, F. (1955). The Gifted as Future Scientist, New York, Earcourt Dcace and WorldInc.
- CBSE; ICSE ó SCIENCE TEXT BOOKS.
4. Chemistry Text Book,(1964).Lab Manual and Teacher's Guide Book.NewDelhi: NCERT.
5. Discovery teaching in science ó Columbus, Ohio; chalesE.Merrill Books, Inc.,
6. Falvery, P. Holbrook, J. & Conian, D. (1994). Assessing Students, Longmans Publications,Hongkong.
7. Gage N.L(ed).Hand book of Research in teaching .....
8. Husen, T.& Keeves, J.P. (Eds.). (1991). Issues in Science Education, Oxford: Pergamon Press.
9. NarendraVaidya.( ) Impact of Science teaching ó
10. Jenkins, E.W. (Ed.) (1997). Innovations in Science and Technology Education. Paris: UNESCO.Vol. VI.
11. Mangal, S. K. (2001).Foundations of Educational Technology. Ludhiana: Tandon Publications.
12. Sharma R.C ( ) Modern science teaching ó.
13. Kolasani et.all ( ) Modern teaching of Chemistry ó
14. Man Pal Singh( ) Modern teaching of Chemistry ó.
15. Mohanasundaram , K. & Charless Williams. (2007). Information and communication technology in education. Trichy: His Grace Educational Printers.
16. Nair, C.P.S. (1971). Teaching of Science in our Schools, Sulthan Chand & Co. (Pvt.) Limited.
17. Nayak. (2003). Teaching of Physics. New Delhi: APH Publications.
18. Nuffield Chemistry, Books of Data, Collection of Experiment, Published for the Nuffield Foundation by Longmans, Penguin Books. 133



## 2.4.10 SUBJECT SPECIFIC PEDAGOGY: BIOLOGY

**Contact Hours: 30**

**Marks 50**

**Credits: 2**

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

1. Understand the planning for Teaching Biology
2. Use advanced and creative techniques, learning aids and improvised apparatus in Biology lessons.
3. Plan and execute various curricular and co-curricular activities related to teaching of biological science.
4. Gain an insight into the skills of evaluating the outcomes of teaching biological science and prepare items and tests for secondary school students.
5. Appreciate and inculcate the competencies and commitments needed for a biological science teacher.

### **Unit 1: Biological Science Curriculum**

**6 hours**

- 1.1 Curriculum: Meaning and Principles
- 1.2 Organisation of the Curriculum: Psychological, Logical, Spiral and Topical Curriculum
- 1.3 Curriculum Development Project: Salient Features- BSCS
- 1.4 Recommendation of Curriculum Framework: NPE-1986, NCF-2005
- 1.5 Main Features of Science Syllabus with special reference to Biology: Karnataka State, CBSE and ICSE

### **Unit: II- Planning and Organization Of Lessons In Biological Science**

**12 Hours**

- 2.1 Analysis of the Biology Content as Facts, Concepts, Principles, Theories and Laws with reference to 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> Standard of Karnataka State Syllabus.
- 2.2 Unit Plan: Meaning, Importance, Components, Steps and Format
- 2.3 Unit Test: Concept, Construction and Administration
- 2.4 Lesson Plan: Meaning, Need, Importance, Steps and Format
- 2.5 Resource Unit: Meaning and Characteristics.
- 2.6 Assignments: Meaning, Importance format and steps in the preparation

### **Unit: Iii- Approaches, Methods And Resources Of Teaching Biological Science** 12 hours

- 3.1 Approaches: Inductive and Deductive, Investigatory, structural and functional approaches- Characteristics, Advantages and Disadvantages
- 3.2 Methods: Lecture cum Demonstration, Specimen method, Problem Solving, Laboratory and Programmed Instruction: Characteristics, Steps, Advantages and Disadvantages (Examples to be chosen from Secondary School Biological Science Curriculum)
- 3.3 Field based resources: Dead wood ecosystem. School Garden, Museum, Aquarium, Vivarium, and Terrarium.
- 3.4 Biological Science laboratory: importance, designing, planning, equipping, maintenance of biological equipments and records.
- 3.5 Biological science text book, Teacher hand book, Laboratory manuals, Student work Books

### **Suggested Topics / Activities for assignments (any one)**

1. Making charts, improvised apparatus and models.
2. Preparation of laboratory instruction cards.
3. Planning and conducting any four practical classes in Biology and maintaining a record of practical work.
4. Preparation of unit test for a unit in Biology.
5. Designing and carrying out of any one simple investigation of Biology.
6. Collecting and preserving biological specimens
7. Preparation and preservation of Herbarium sheets.
8. Collecting and keeping plants and animals alive for instructional purposes: Aquarium, Terrarium and Vivarium.

### **REFERENCES:**

1. Bremmer, Jean (1967): Teaching Biology, Macmillan, London.
2. Dastgir, Ghulam (1980): Science Ki Tadresh, Translation of Sharma and Sharma
3. Green, T.C. (1967): The Teaching and Learning Biology, Allman & Sons, London.
4. Gupta, V.K. (1994): Life Sciences Education Today. Arun Publishing House Pvt.Ltd. SCO 49-51, Sector 17-C, Chandigarh.
5. Gupta, V.K. (1995): Reading in Science and Mathematics Education, Associated Publishers, Ambala Cantt.
6. Gupta, V.K. (1995): Teaching and Learning of Science and Technology, Vikas Publishing House, New Delhi.
7. Gupta, V.K. (1996): Science and Technology Education: New Thrusts and Recent Trends, Arun Publishing House, Chandigarh.
7. Heller, R. (1967): New Trends in Biology Teaching, UNESCO, Paris.Ltd.
10. Miller, David, F. (1963): Methods and Materials for Teaching the Biological Sciences, McGraw Hill, New York.
11. Nanda V.K.: Science Education Today, New Delhi: Anmol Publications Pvt.
12. NCERT (1969): Improving Instructions in Biology, New Delhi.
13. Novak, J.P. (1970): The Improvement of biology Teaching, Publishing House, New Delhi.
14. Nunn, Gordon (1951): Handbook for Science Teachers in Secondary Modern School, John Murry, London. Publications.
17. Ravi Kumar S.K.: Teaching of Biology, Jaipur: Mangal Deep Publications.
18. Sharma B.M. and Sharma A.S.: Encyclopedia of Education in 21st Century Science & Education, Volume 6 & 8, New Delhi: Commonwealth Publication.
19. Sharma, R.C. (1975): Modern Science Teaching, Dhanpat Rai & Sons, New Delhi.
20. Shukla, C.S.: Biology Teaching, Meerut: International Publishing House,
21. Siddiqui Najma N. and Siddiqui M: Teaching of Science Today and Tomorrow, Delhi: Doaba House.
22. Teaching of Sc., Tarakki Urdu Board, New Delhi.
23. Thurber, Walter (1964): Teaching of Science in Today's Secondary Schools, Prentice Hall.
25. UNESCO: Modern Trends in Teaching Biological Science, V.III.
26. Vaidya N.: Science teaching for the 21st century, New Delhi: Deep and Deep
27. Vaidya, N. (1971): The Impact of Science Teaching, Oxford and IB+I Publication Co., New Delhi.
28. Vaidya, N.: The Impact Science Teaching, New Delhi: Oxford & IBH Publishing.

29. Voss, Burton F.A. & Bren, S.B.: Biology as Inquiry, A Book of Teaching Methods. Washton: Teaching Science Creatively
31. Waston, N.S. (1967): Teaching Science Creativity in Secondary School, U.B.Saunders Company,London.
32. Yadav K. : Teaching of Life Science, New Delhi: Anmol Publications.
33. Yadav Seema and Singh A.K.: Teaching of Life Science, New Delhi:Dominant Publications.

## 2.4.11 SUBJECT SPECIFIC PEDAGOGY: MATHEMATICS

**Contact Hours: 30**

**Marks 50**

**Credits: 2**

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

1. Understand the various curriculums of Mathematics
2. Understand the nature, structure, scope and relations with other disciplines.
3. Understand the Approaches and methods of teaching Mathematics
4. Understand the aims and objectives of teaching Mathematics.
5. Identify the learning experiences appropriate to the objectives of teaching secondary school mathematics.
6. Prepare the year plan, unit plan, activity oriented lesson plans for effective classroom communication
7. Able to revive the school Mathematics curriculum

### **Unit I- Mathematics Curriculum Study.**

**10 hours**

- 1.1 Curriculum: Meaning and Principles
- 1.2 Organisation of the Curriculum: Psychological, Logical, Spiral and Topical Curriculum
- 1.4 Recommendation of Curriculum Framework: NPE-1986, NCF-2005
- 1.5 Main Features of Mathematics Syllabus with special reference Karnataka State syllabus, CBSE and ICSE

### **Unit-Ii:- Instructional Design For Mathematics.**

**10 hours**

- 2.1 Lesson plan- meaning definitions, importance steps, format
- 2.2 Unit plan- steps, format
- 2.3 Resource unit- steps, format
- 2.4 Year plan- meaning, principles, and format.
- 2.5 Mathematics Laboratory - need and importance, equipments furnishing and maintenance

### **Unit-Iii:- Methods And Approaches Of Teaching Mathematics 10 hours**

- 3.1 Learner centered approaches ó inductive, deductive, analytic, synthetic, laboratory method.
- 3.2 Activity centered approaches ó Heuristic approach, project method, programmed instruction.
- 3.3 Devices in teaching Mathematics- oral work written work, drill work and review.
- 3.4 Models of teaching ó Bruner's concept attainment model.

### **Suggested Topics / Activities for assignments (any one)**

1. Critically study of mathematics text book of 8th or 9th standard.
2. Preparation of diagnostic test in mathematics.
3. Survey of mathematics laboratory facilities of any three high schools with practical suggestion for improvement.
4. Preparing a report of different activities of Mathematics club.
5. Preparation of workbook for 1 or 2 units.

6. Preparation of Programmed Instruction/Computer Assisted Instruction (CAI)/ICT based learning materials.
7. The college is free to introduce any other relevant activities.

## REFERENCES

1. Agarwal S M-(1977) A course in teaching of modern mathematics, New Delhi-
2. Ashlock Si Herman (1970): Current Research in Elementary School Mathematics, Macmillan, London.
3. Bell, E.T. (1965): Men of Mathematics I & II, Penguin.
4. Biggs, E.E. & Maclean James, R. (1969): Freedom to Learn, Addison Wesley, Canada.
5. Butler and Wren (1951): Teaching of Secondary Mathematics, McGraw Hill Book, Co., New York.
6. Butler and Wren (1960) The Teaching of Secondary Mathematics, Tokyo, McGraw Hill Book Company
7. Davis D.R. (1951): The Teaching of Mathematics, Addison Wesley Press, London.
8. Dolclani B.F. (1972): Modern School Mathematics-Structure and Method.
9. Henderson, K et.al (1975) Dynamics of Teaching Secondary Mathematics, London Houghton Mifflin
10. Jantli R, T, (2000) Subhodha Ganitha Bodhane, Vidyanidhi Prakashana Gadag.
11. Kapoor J N (1989) ó Fascinating world of Mathematics New Delhi-
12. Land, Frank (1975): The Language of Mathematics, John Surrey, London.
13. London Mathematics Association: Report on the Teaching of Arithmetic, Algebra & Geometry, B.Bell & Sons.
14. Mangal S.K (1981) ó Text book of teaching mathematics, Prakash Brothers, Ludhiana Publication
15. McIntosh, Jerry A. (1971): Perspective on Secondary Mathematics Education, Prentice Hall, NewJersy. 139

## 2.4.12 SPECIFIC PEDAGOGY SUBJECT:-COMMERCE

**Contact Hours: 30 hours**

**Marks: 50**

**Credits: 2**

**Objectives:** To enable the student teachers-

- To develop an understanding of the meaning, nature and scope of commerce education.
- To develop an understanding of the maxims and principles of teaching commerce.
- To develop understanding the bases of the commerce education and its relation with other disciplines.
- To develop understanding of the objectives of teaching commerce at higher secondary level (NCF 2005).
- To understand various methods used in teaching of commerce.
  - To develop an understanding of the importance of latest trends in teaching of commerce.

### **Unit I: Concept and scope of Commerce Education**

**10 hours**

- (a) Meaning, nature, need and scope of commerce education.
- (b) Commerce education in India (relevance in life and curriculum).
- (c) Objectives of teaching of commerce at Higher Secondary level( as per NCF 2005)

### **Unit II: Bases of Commerce Education**

**10 hours**

- (a) Interdisciplinary linkage in the curriculum, Intra-correlation with book keeping, organization of commerce and secretarial practice.
- b) Inter correlation of commerce with maths, economics and geography.

Principles of Teaching of Commerce:

-Principle of flexibility, Principle of activity, Principle of individual differences  
Principle of learner centeredness, Principle of community centeredness

### **Unit III Latest trend in Teaching of Commerce**

**10 hours**

- (a) Co-operative learning (meaning, importance and types)
- (b) Use of e-resources. (Discussion forum, e-book, e-Journals, e-business with reference to relevance in commerce teaching)
- (c) Simulation (role play, games CAM- organization and execution in teaching of Commerce)

### **Suggested Topics / Activities for assignments (any one)**

- Prepare and execute a lesson plan by using any one of the following:
  - ✓ e-resources
  - ✓ Simulation techniques

- Study and compare the commerce education at higher secondary level in India with any one developed country.
- Critically analyse any one textbook of commerce with reference to intra and inter correlation.
- Select any contemporary issue related to commerce field and present a paper using seminar method.

## REFERENCES:

1. Commerce Education Mohammed Sharif Khan Sterling Publishers Pvt Ltd-New Delhi
2. Teaching of Commerce-A Practical Approach J.C AggarwalVikas Publishing House Pvt Ltd- New Delhi
3. Method and Techniques of Teaching Commerce Singh M.N Young Man & Co. New Delhi.
4. Teaching of Commerce Seema Rao Anmol Publication, New Delhi.
5. Methodology of Commerce Education Dr. Umesh Mr. Ajay Rana Tandon PublicationsLudhiana
7. Teaching of Commerce Dr. R.P Singh VinayRakhejaC/o R. Lall Book Depot- Meerut. Teaching of Commerce in Our School Lulla B.P, BTTC-BIE Publication, Bombay)
8. Teaching of Commerce. G.S. Karthik, Sumit Enterprises, New Delhi.
9. Commerce Education in the New Millennium, I.V. Trivedi, RBSA Publishers, Jaipur.
10. Teaching of Commerce. VintyMonga, Twenty First Century Publications, Patiala.
11. Teaching of Commerce. Rainu Gupta, Shipra Publications, Delhi.

## WEBSITES:

e-commerce

<http://ecommerce.about.com/od/eCommerce-Basics/tp/Advantages-Of-Ecommerce.htm>

<http://www.manjeetss.com/articles/advantagesdisadvantagesecommerce.html>

e-business-meaning

<http://searchcio.techtarget.com/definition/e-business>

Benefits of e business

<http://smallbusiness.chron.com/advantages-e-business-2252.html>

<http://skills.business.qld.gov.au/planning/269.html>

Social networking

<http://chronicle.com/article/How-Social-Networking-Helps/123654>

[http://wcsit.org/pub/2012/vol.2.no.1/The%20Use%20of%20Social%20Network in g%20in%20Education%20Challenges%20and%20Opportunities.pdf](http://wcsit.org/pub/2012/vol.2.no.1/The%20Use%20of%20Social%20Network%20in%20Education%20Challenges%20and%20Opportunities.pdf)