

**PAPER-: Process of Education-II**

**Course Code- C08-PED-II**

**Credits = 4**

**Total Marks= 100**

**External= 70**

**Internal= 30**

**Objectives:**

The Teacher Educators (students) will be able to:

- Explain the educational implications of some schools of philosophy in Western Thought and Indian Philosophy.
- Examine critically the concerns arising from the vision of great Western and Indian thinkers.
- Reflect on changing political context of education and support system of education.
- Discuss the changing socio-cultural dimensions in the context of education.

<b>Lecture No.</b>	<b>Topic</b>	<b>Lecture Description</b>	<b>Terminal behavior/ Learning outcomes</b>	<b>Pedagogical Tools</b>
1	Indian schools of philosophy: Sankhya-Yoga.	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of Sankhya and are able to understand and reflect.	Lecture cum Discussion Method
2	Indian schools of philosophy: Sankhya-Yoga.	Relationship and impact	Learners will be able to explain their relationships along with usability	Lecture cum Discussion Method

3	Indian schools of philosophy: Sankhya-Yoga.	Discussion on Sankhya-Yoga	Learners will respond and reflect according to their understanding.	Discussion
4	Indian schools of philosophy: Vedanta	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of Vedanta and are able to understand and reflect.	Lecture with situational examples
5	Indian schools of philosophy: Vedanta	Relationship and impact	Learners will be able to explain their relationships along with usability	Lecture cum Discussion Method
6	Indian schools of philosophy: Vedanta	Discussion on Vedanta	Learners will respond and reflect according to their understanding.	Discussion
7	Indian schools of Western philosophy: Realism.	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of Realism and are able to understand and reflect.	Lecture cum Discussion Method
8	Indian schools of Western philosophy: Realism	Relationship and impact	Learners will be able to explain their relationships along with usability	Lecture cum Discussion Method
9	Indian schools of Western philosophy: Realism	Discussion on Realism	Learners will respond and reflect according to their understanding.	Discussion
10	Indian schools of Western philosophy: Existentialism	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of Existentialism and are able to understand and reflect.	Lecture cum Discussion Method

11	Indian schools of Western philosophy: Existentialism	Relationship and impact	Learners will be able to explain their relationships along with usability	Lecture cum Discussion Method
12	Indian schools of Western philosophy: Existentialism	Discussion on Existentialism	Learners will respond and reflect according to their understanding.	Discussion
13	Critical analysis of educational thoughts of great thinkers: Dr. Radhakrishnan	Introduction, contribution	Learners will know about the educational Philosophy of Dr. Radhakrishnan and are able to understand, analyse and reflect.	Lecture cum Discussion Method
14	Critical analysis of educational thoughts of great thinkers: Dr. Radhakrishnan	Analysis of educational thoughts	Learners will know about the educational Philosophy of Dr. Radhakrishnan and are able to understand, analyse and reflect.	Lecture cum Discussion Method
15	Critical analysis of educational thoughts of great thinkers: Dr. Radhakrishnan	Discussion on educational thoughts of Dr. Radhakrishnan	Learners will respond and reflect according to their understanding.	Discussion
16	Critical analysis of educational thoughts of great thinkers: Swami Vivekananda.	Introduction, contribution	Learners will know about the educational Philosophy of Swami Vivekananda and are able to understand, analyse and reflect.	Lecture cum Discussion Method Blended Teaching (Use of ICT)

17	Critical analysis of educational thoughts of great thinkers: Swami Vivekananda.	Analysis of educational thoughts	Learners will know about the educational Philosophy of Swami Vivekananda and are able to understand, analyse and reflect.	Lecture cum Discussion Method Blended Teaching (Use of ICT)
18	Critical analysis of educational thoughts of great thinkers: Swami Vivekananda.	Discussion on educational thoughts of Swami Vivekananda.	Learners will respond and reflect according to their understanding.	Discussion
19	Critical analysis of educational thoughts of great thinkers: J. Krishnamurthy.	Introduction, contribution	Learners will know about the educational Philosophy of J. Krishnamurthy and are able to understand, analyse and reflect.	Lecture cum Discussion Method Blended Teaching (Use of ICT)
20	Critical analysis of educational thoughts of great thinkers: J. Krishnamurthy.	Analysis of educational thoughts	Learners will know about the educational Philosophy J. Krishnamurthy and are able to understand, analyse and reflect.	Lecture cum Discussion Method
21	Critical analysis of educational thoughts of great thinkers: J. Krishnamurthy.	Discussion on educational thoughts of J. Krishnamurthy.	Learners will respond and reflect according to their understanding.	Discussion

22	Critical analysis of educational thoughts of great thinkers: John Dewey.	Introduction, contribution	Learners will know about the educational Philosophy of John Dewey and are able to understand, analyse and reflect.	Lecture cum Discussion Method Blended Teaching (Use of ICT)
23	Critical analysis of educational thoughts of great thinkers: John Dewey.	Analysis of educational thoughts	Learners will know about the educational Philosophy of John Dewey and are able to understand, analyse and reflect.	Lecture cum Discussion Method
24	Critical analysis of educational thoughts of great thinkers: John Dewey.	Discussion on educational thoughts of John Dewey.	Learners will respond and reflect according to their understanding.	Discussion
25	Critical analysis of educational thoughts of great thinkers: Paulo Freire.	Introduction, contribution.	Learners will know about the educational Philosophy of Paulo Freire and are able to understand, analyse and reflect.	Lecture cum Discussion Method Blended Teaching (Use of ICT)
26	Critical analysis of educational thoughts of great thinkers: Paulo Freire.	Analysis of educational thoughts	Learners will know about the educational Philosophy of Paulo Freire and are able to understand, analyse and reflect.	Lecture cum Discussion Method
27	Critical analysis of educational thoughts of great thinkers: Paulo Freire.	Discussion on educational thoughts of Paulo Freire.	Learners will respond and reflect according to their understanding.	Discussion

28	Critical analysis of educational thoughts of great thinkers: Evan Illich.	Introduction, contribution .	Learners will know about the educational Philosophy of Evan Illich and are able to understand, analyse and reflect.	Lecture cum Discussion Method Blended Teaching (Use of ICT)
29	Critical analysis of educational thoughts of great thinkers: Evan Illich.	Analysis of educational thoughts	Learners will know about the educational Philosophy of Evan Illich and are able to understand, analyse and reflect.	Lecture cum Discussion Method Blended Teaching (Use of ICT)
30	Critical analysis of educational thoughts of great thinkers: Evan Illich.	Discussion on educational thoughts of Evan Illich.	Learners will respond and reflect according to their understanding.	Discussion
31	Connections and interactions in the process of education-Nature of connections and interaction involved: Between the child and the environment	Explanation of concepts and revealing the connections and interactions of child and atmosphere	Learners will be able to depict and explain the connections and interactions between child and environment.	Lecture cum Discussion Method with illustrations.

32	Nature of connections and interaction involved: in linking the school practices with life outside the school; in relating subject knowledge with real life experiences of the child.	Finding and explaining the connections and interactions in linking the school practices with life outside the school and in relating subject knowledge with real life experiences	Learners will be able to depict and explain the connections and interactions between school practices and life outside the school.	Lecture cum Discussion Method with illustrations.
33	Nature of connections and interaction involved: between the knowledge and practices;	Finding and explaining the connections and interactions between knowledge and practice	Learners will be able to depict and explain the connections and interactions between knowledge and practices.	Lecture cum Discussion Method with illustrations.
34	Nature of connections and interactions involved between the content and the pedagogy.	Finding and explaining the connections and interactions between the content and the pedagogy.	Learners will be able to depict and explain the connections and interactions between content and the pedagogy	Lecture cum Discussion Method with examples.
35	Nature of connections and interaction involved: between the ICT and teaching -learning process	Finding and explaining the connections and interactions between ICT and teaching -learning process	Learners will be able to depict and explain the connections and interactions between ICT and teaching -learning process	Lecture cum Discussion Method with examples.

36	Relationship of Education and Politics with special reference to Democracy in Indian context.	Revealing the relationship between politics and education	Learners will be able to reveal the relationships and impacts (vice versa)	Lecture method followed by discussion
37	Relationship of Education and Politics with special reference to Secularism in Indian context.	Revealing the relationship between politics and education	Learners will be able to reveal the relationships and impacts (vice versa)	Lecture method followed by discussion
38	Process of socialization and acculturation of the child-critical appraisal of the role of school and Parent.	Socialization and Acculturation: Definition, meaning. Understanding and analyzing the role of school and parents	Learners will be able to define and understand Socialization and Acculturation with special reference to the role of school and parents	Lecture method followed by discussion
39	Process of socialization and acculturation of the child-critical appraisal of the role of peer-group and the community.	Understanding and analyzing the role of peer-group and the community	Learners will be able to depict the role of peer group and community in process of Socialization and Acculturation	Lecture method followed by discussion
40	Economy and Education-Relationship.	Meaning and relationship	Learners will understand the relationship of Economy and Education	Lecture method followed by discussion
41	Impact of Liberalisation on education.	Liberalization: Meaning and relationship	Learners will understand the relationship and impact of Liberalisation on education	Lecture method followed by discussion



42	Impact of Privatization on education.	Privatization: Meaning and relationship	Learners will understand the relationship of Privatisation on education	Lecture method followed by discussion
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**Assignment:**

Impact of Globalisation on education.

**Paper-Psychology for Individual and Social Development-II**

**COURSE CODE: C09-PIS-II**

**Credits = 4**

**Total Marks = 100**

**External = 70**

**Internal= 30**

**COURSE OBJECTIVES**

At the end of this course, the student will be able to

- Explain concept of learning and motivation
- Gain knowledge about the concept and theories of personality and its assessment
- Differentiate between characteristics of adjusted and maladjusted learners
- Understand and measure the learner's cognitive abilities with special reference to intelligence
- Get acquainted with concept and nature of children with special needs

<b>Lecture No.</b>	<b>Topic</b>	<b>Lecture description</b>	<b>Terminal behaviour/ Learning outcomes</b>	<b>Pedagogical Tools &amp; Teaching</b>
Unit-1. Learning And Motivation				
1.	Learning	Meaning, definition and characteristics	Learners will be able to define the concept of learning	Power point Presentation with explanation
2.	Learning	Factors affecting Learning	Learners will be able to indentify the factors affecting learning	Power point Presentation with explanation
3.	Latent learning	Meaning, definition and characteristics	Learners will be able to explain latent learning in their own words	Lecture method with discussion
4.	Gagne`s Hierarchy of Learning	Process of theory development	Learners will be able to summarise the hierarchy of leaning.	Brainstorming method
5.	Gagne`s Hierarchy of Learning	Illustrating Gagne`s Outcomes	Learners will be able to give examples Gagne`s outcomes.	Lecture method with discussion
6.	Gagne`s Hierarchy of Learning	Types of Learning by Gagne	Learners will be able to enlist the types of learning given by Gagne	Lecture method with discussion
7.	Transfer of learning	Meaning Definition Characteristics	Learners will be able to describe the transfer f learning	Seminar
8.	Transfer of learning	Types of Transfer of Learning	Learners will be able to explain the various type of Transfer of learning	Lecture method with discussion

9.	Transfer of learning	Theories of Transfer of learning	Learners will be able to describe various theories Transfer of learning	Lecture method with discussion
10.	Transfer of learning	Educational implication	Learners will be able to discuss educational implications of transfer of leaning.	Brainstorming method
11.	Motivation	Meaning, Definition and characteristics	Learners will be able to understand the concept of motivation	Lecture method with discussion
12.	Motivation	Types of Motivation	Learners will be able to enlist the types of motivation	Lecture method with discussion
13.	Motivation	Relationship of motivation with Learning	Learners will be able to locate the relationship between motivation and learning	Brainstorming method
14.	Motivation	Achievement Motivation	Learners will be able to define achievement motivation in their own words	Lecture method with discussion
Unit-2. Personality and Adjustment				
15.	Concept of Personality	Meaning definition and characteristics	Learners will be able to define personality in their own words	Lecture method with discussion
16.	Cattell`s theory of Personality	Concept and introduction of the theory	Learners will be able to understand the theory	Lecture method with discussion

17.	Cattell`s theory of Personality	Explanation of the theory	Learners will be able to explain the theory in their own words.	Lecture method with discussion
	Eysenk`s theory of Personality	Concept and introduction of the theory	Learners will be able to understand the theory	Lecture method with discussion
	Eysenk`s theory of Personality	Explanation of the theory	Learners will be able to explain the theory in their own words.	Lecture method with discussion
18.	Allport`s theory of Personality	Concept and introduction of the theory	Learners will be able to understand the theory	Lecture method with discussion
	Allport`s theory of Personality	Explanation of the theory	Learners will be able to explain the theory in their own words.	Lecture method with discussion
19.	Freud`s theory of Personality	Concept and introduction of the theory	Learners will be able to understand the theory	Lecture method with discussion
	Freud`s theory of Personality	Explanation of the theory	Learners will be able to explain the theory in their own words.	Lecture method with discussion
21.	Vedantic concept of Personality- Panchkosh	Meaning, definition and characteristics	Learners will be able to understand the concepts	Lecture method with discussion
23.	Personality	Assessment Techniques	Learners will be able to use various assessment techniques	Power point Presentation with explanation
24.	Personality	Assessment and	Learners will be able to enlist implications of	Power point Presentation

		Implications for teachers	assessment of personality for teachers	with explanation
25.	Personality	Assessment and Implications for Students	Learners will be able to enlist implications of assessment of personality for students	Power point Presentation with explanation
26.	Adjustment	Meaning Definition and characteristics	Learners will be able to understand concept of adjustment	Power point Presentation with explanation
27.	Adjustment	Causes for Maladjustment	Learners will be able to indentify causes responsible for Maladjustments	Brainstorming method
29.	Defence Mechanism	Meaning , Definition and characteristics	Learners will be able to define defence mechanism in their own words.	Lecture method with discussion
30.	Defence Mechanism	Various types of defence Mechanism	Learners will be able to enlist various types of defence mechanism.	Brainstorming method
31.	Conflicts	Meaning , Definition and characteristics	Learners will be able to understand conflicts	Power point Presentation with explanation
32.	Conflicts	Management for Conflicts	Learners will be able to manage their own conflicts.	Power point Presentation with explanation
Unit-3. Understanding Intelligence				

34.	Intelligence	Meaning , Definition and characteristics	Learners will be able to define intelligence.	Power point Presentation with explanation
35.	Intelligence	Characteristics of Intelligence	Learners will be able to indentify characteristics of intelligence	Power point Presentation with explanation
36.	Intelligence	From Unitary to Multiple factors	Learners will be able to summarize factors of intelligence from Unitary to Multiple	Power point Presentation with explanation
37.	Gardner`s theory of Intelligence	Concept and introduction of the theory	Learners will be able to understand the theory	Power point Presentation with explanation
	Gardner`s theory of Intelligence	Explanation of the theory	Learners will be able to explain the theory in their own words.	Power point Presentation with explanation
38.	Sternberg`s theory of Intelligence	Concept and introduction of the theory	Learners will be able to understand the theory	Power point Presentation with explanation
39.	Sternberg`s theory of Intelligence	Explanation of the theory	Learners will be able to explain the theory in their own words.	Power point Presentation with explanation
40.	Intelligence	Assessment of Multiple Intelligence	Learners will be able assess multiple intelligence	Power point Presentation with explanation
41.	Emotional Intelligence	Meaning , Definition and development of	Learners will be able to define emotional intelligence.	Power point Presentation with explanation

		Emotional Intelligence	Learners will be able to develop Emotional intelligence	
42.	Spiritual Intelligence	Meaning , Definition and development of Spiritual Intelligence	Learners will be able to define Spiritual intelligence.  Learners will be able to develop Spiritual intelligence	Lecture method with discussion
43.	Spiritual Intelligence	Principles of Spiritual Intelligence	Learners will be able to explain the various principle of Spiritual Intelligence.	Lecture method with discussion
44.	Spiritual Intelligence	Principles of Spiritual Intelligence	Learners will be able to explain the various principle of Spiritual Intelligence.	Lecture method with discussion
Unit-4. Understanding Children With Diverse Needs				
45.	Children With Diverse Needs	Meaning Definition characteristics	Learners will be able to indentify the children with diverse need	Power point Presentation with explanation
46.	Children With Diverse Needs	Classification	Learners will be able classify Children with diverse need	Power point Presentation with explanation
47.	Children With Diverse Needs	Role of Teacher	Learners will be able to explain the role of teacher in development of children with special	Power point Presentation with explanation



			need.	
48.	Learning Disability	Meaning Definition	Learners will be able to define learning disabilities.	Power point Presentation with explanation
49.	Learning Disability	Characteristics of Learning Disability	Learners will be able to identify learning disability.	Power point Presentation with explanation
50.	Learning Disability	Types of Learning Disability	Learners will be able to explain the various types of Learning Disabilities.	Power point Presentation with explanation
51.	Learning Disability	Dyslexia	Learners will be able to define dyslexia in their own words.	Power point Presentation with explanation
52.	Learning Disability	Dysgraphia	Learners will be able to define Dysgraphia in their own words.	Power point Presentation with explanation
53.	Learning Disability	Dyscalculia	Learners will be able to define dyscalculia in their own words.	Power point Presentation with explanation
54.	Learning Disability	Children with ADHD	Learners will be able to define ADHD in their own words.	Power point Presentation with explanation
55.	Learning Disability	Children with ADD	Learners will be able to define ADD in their own words.	Power point Presentation with explanation
56.	Inclusive Education	Meaning Definition and characteristics	Learners will be able understand Inclusive Education.	Brainstorming method
57.	Inclusive Education	Process of Inclusive	Learners will be able to describe the process of	Brainstorming method

		Education	inclusion.	
58.	Inclusive Education	Barriers of Inclusive Education	Learners will be able to enlist barriers of inclusive education.	Brainstorming method
<b>PRACTICALS</b>				
61	Intelligence test			
62	Personality test/ Word Association Test			
63	Test of adjustment/ analysis of a case of a maladjusted learner			
64	DTLD/Test to identify ADHD			

## **Paper-Educational research and statistics-II**

### **C- 10-ERS-II**

**Credits: 4**

**Total Marks: 100**

**External: 70**

**Internal: 30**

### **Objectives**

After completion of course the student will be able to

- Select the tools for studying different variables.
- Understand historical, descriptive and experimental method of research.
- Select/ formulate the design of the study by controlling and classifying the variables demanded by the design.
- Understand the meaning and compute ANOVA, Chi square, Wilcoxon Signed Rank Test Mann-Whitney Test.
- Report the research work in accordance with the current trends and procedures of report writing.
- Select and conduct the statistical analysis of the data by applying the statistics suitable for the problem.

<b>Lecture No.</b>	<b>Topic</b>	<b>Lecture description</b>	<b>Terminal behaviour/ Learning outcomes</b>	<b>Pedagogical Tools &amp; Teaching</b>
1	Tools	Characteristics of a good tool	Understanding the characteristics of a good tool	Lecture method followed by illustrations
2	Vaildity	Meaning and methods of validity	Learners will be able to understand the types of validity	Lecture method followed by ppt
3	Reliability	Meaning and methods of reliability	Learners will be able to understand the types of reliability	Lecture method followed by ppt
4	Psychological tests	Procedure	Learners will know the procedure of psychological test	Group discussions followed by illustrations
5	Psychological tests	classification	Learners will be able to classify the psychological test	Brain storming and discussion
6	Questionnaire	Meaning, classification and limitations	Learners will be able to understand the classification & limitations of questionnaire	Group discussion followed by ppt
7	Questionnaire	Construction	Learners will be able to construct the questionnaire	Demonstration cum project method
8	Rating scales	Forms and constructions	Learners will be able to construct the rating scale	Lecture method followed by illustration
9	Rating scales	Advantages and limitations	Learners will be able to understand the advantages & limitations of rating scales	Group discussion method

10	Attitude scale	Methods and limitations	Learners will be able to understand the methods of attitude scale & its limitations	Lecture method followed by ppt
11	Observation technique	Planning, execution and recording of observation	Learners will know about the planning, execution & recording of observation	Brain storming followed by ppt
12	Observation technique	Advantages and limitations	Learners will be able to understand the advantages & limitations of observation	Lecture cum discussion method
13	Interview technique	Types, reliability & validity	Learners will know about types, validity & reliability of interview	Brain storming followed by ppt
14	Interview technique	Techniques, advantages & limitations	Learners will be able to understand the techniques, advantages & limitations of interview	Lecture cum discussion method
15	Historical method	Nature & types of historical research	Learners will be able to know the nature & types of historical method	Lecture cum illustrations
16	Historical method	Methods of historical research	Learners will be able to understand the methods of historical research	Lecture method followed by ppt
17	Descriptive method	Nature & steps of descriptive research	Learners will be able to understand the nature & steps of descriptive research	Lecture cum illustrations
18	Descriptive method	Types of descriptive method	Learners will be able to understand the types of descriptive method	Lecture method followed by ppt

19	Experimental method	Nature & steps of experimental method	Learners will know about nature & steps of experimental method	Lecture cum illustrations
20	Experimental method	Experimental designs & its steps	Learners will be able to create an experimental designs by following steps	Lecture method followed by ppt
21	Sessional work Attitude scale	development of an attitude scale	Learners will understand the norms of developing an attitude scale	Demonstration method
22	Attitude scale	Develop the attitude scale	Learners will develop an attitude scale	Project method
23	Significance of Statistics.	(Mean Only),	Learners will understand the significance of statistics.	Lecture method
24	Significance of difference between means	Large and small, Independent and correlated	Learners will understand the significance of difference between means	Lecture cum illustrations
25	ANOVA	one way and two way only	Learners will understand the ANOVA	Lecture cum illustrations
26	Chi –Square	Chi –Square test of independence	Learners will understand the Chi – Square test of independence	Lecture method followed by ppt
27	Wilcoxon Signed	Rank test	Learners will understand the Wilcoxon Signed Rank test	Lecture method followed by ppt

28	Wilcoxon Signed	Mann- Whitney test.	Learners will understand the Wilcoxon Signed Mann- Whitney test.	Lecture method followed by Demonstration method
29	Sessional Work:	Development of an attitude scale	Learners will be make a development of an attitude scale	Practical work

## **Pedagogy of Mathematics Education-II**

**Course Code-E04-PME-II**

**Credit= 4**

**Total Marks=100**

**External=70**

**Internal=30**

### **Objectives:**

On completion of this course, students will be able to:

- Appreciate the abstract nature of mathematics.
- Distinguish between science and mathematics.
- Develop the skill of solving real life problems through mathematics modelling as an art.
- Develop the understanding of using constructivist approach in mathematics.
- Develop the skill of using various methods and techniques of teaching mathematics.
- Develop problem solving skills.
- Develop the skills required for action research in mathematics.



<b>Lecture s No.</b>	<b>Topic</b>	<b>Lecture Description</b>	<b>Terminal behavior/ Learning outcomes</b>	<b>Pedagogical Tools</b>
1.	Mathematics	Meaning, Nature and scope of mathematics	Learners will know about the concept of mathematics	Lecture cum Discussion Method
2.	Distinction between mathematics and Science; Structure of Mathematics	Pure and Applied Mathematics	Learners will know about the Distinction between mathematics and Science	Lecture cum Discussion Method with examples
3.	Distinction between mathematics and Science; Structure of Mathematics	, Axiom Postulates, Proof	Learners will know about the Distinction between mathematics and Science	Lecture cum Discussion Method
4.	Distinction between mathematics and Science; Structure of Mathematics	Solution of mathematics Problems- Direct proof, indirect proof,	Learners will know about the Distinction between mathematics and Science	Lecture cum Discussion Method
5.	Distinction between mathematics and Science; Structure of Mathematics	Proof by contradiction, Importance,	Learners will know about the Distinction between mathematics and Science	Lecture cum Discussion Method

6.	Distinction between mathematics and Science; Structure of Mathematics	Application and Selection of Examples.	Learners will know about the Distinction between mathematics and Science	Lecture cum Discussion Method
7.	Recreational and Aesthetic aspect of mathematics	Games, Puzzles, Riddles, Symmetry etc and their role in learning mathematics	Learners will know about the Recreational and Aesthetic aspect of mathematics	Lecture cum Discussion Method with examples
8.	Mathematics Club	Need and Importance, Goals	Learners will know about the Mathematics Club	Lecture cum Discussion Method with examples
9.	Mathematics Club	Organization and Activities	Learners will know about the Mathematics Club	Lecture cum Discussion Method
10.	Mathematics Laboratory	Designing and Layout, Need and Importance	Learners will know about the Mathematics Laboratory	Lecture cum Discussion Method with examples
11.	Mathematics Laboratory	, Materials and Procedure to set up	Learners will know about the Mathematics Laboratory	Lecture cum Discussion Method
12.	Development of Mathematics	Development of Mathematics with some famous anecdotes, Pythagoras, Aryabhata, Ramanujan.	Learners will know about the Development of Mathematics	Lecture cum Discussion Method

13.	Development of Mathematics	Development of Mathematics with some famous Aryabhata, Ramanujan.	Learners will know about the Development of Mathematics	Lecture cum Discussion Method
14.	Teaching Mathematics Modeling.	Text books (Science): Definition, Meaning, Characteristics	Learners will know about the teaching Mathematics Modeling.	Lecture cum Discussion Method
15.	Teaching Mathematics Modeling.	need and importance	Learners will know about the teaching Mathematics Modeling.	Lecture cum Discussion Method
16.	Pedagogical Analysis of Mathematics.	Procedure of selecting a text book and need and importance of reference books	Learners will know about the Pedagogical Analysis of Mathematics.	Lecture cum Discussion Method
17.	Curriculum of Mathematics	Meaning, Principles of curriculum,	Learners will know about the Curriculum of Mathematics	Lecture cum Discussion Method
18.	Curriculum of Mathematics	Construction and Organisation	Learners will know about the Curriculum of Mathematics	Lecture cum Demonstration

19.	Curriculum Evaluation and Reform in School Mathematics Curriculum	Rationale, Objective, Principles	Learners will know about the Curriculum Evaluation and Reform in School Mathematics Curriculum	Lecture cum Discussion Method Blended Teaching (use of ICT)
20.	Curriculum Evaluation and Reform in School Mathematics Curriculum	Learning Experiences and Materials in mathematics	Learners will know about the Curriculum Evaluation and Reform in School Mathematics Curriculum	Lecture cum Demonstration
21.	Curriculum Evaluation and Reform in School Mathematics Curriculum	Recent Curriculum reforms at National and State Levels (NCF 2009).	Learners will know about the Curriculum Evaluation and Reform in School Mathematics Curriculum	Lecture cum Demonstration
22.	Developing Remedial	Learning experiences and teaching material to overcome special problems of students.	Learners will know about the developing Remedial	Lecture cum Discussion Method
23.	Developing enriched programmes and materials	Developing enriched programmes and materials for teaching gifted and backward students in mathematics	Learners will know about the developing enriched programmes and materials	Lecture cum Demonstration

24.	Strategies of Teaching Learning Mathematics	a) Approaches of Mathematics Teaching-Learning Constructivist Approach,	Learners will understand the Strategies of Teaching Learning Mathematics	Lecture cum Demonstration
25.	a) Approaches of Mathematics Teaching- Learning	Competency-Based Approach	Learners will understand the Strategies of Teaching Learning Mathematics	Lecture cum Demonstration
26.	Strategies of Teaching Learning Mathematics	Methods of Mathematics Teaching- Learning Inductive and Deductive Method,	Learners will understand the Strategies of Teaching Learning Mathematics	Lecture cum Demonstration
27.	Strategies of Teaching Learning Mathematics	Analytic- Synthetic method, Computer Based Instructions and Computer Aided Learning	Learners will understand the Strategies of Teaching Learning Mathematics	Lecture cum Demonstration
28.	Techniques of Mathematics Teaching- Learning	Problem-Solving: Stages of Problem	Learners will know about the Techniques of Mathematics Teaching-Learning	Lecture cum Discussion Method

29.	Techniques of Mathematics Teaching- Learning	Solving Techniques to improve Problem-Solving Skills (Polya Method	Learners will know about the Techniques of Mathematics Teaching-Learning	Lecture cum Discussion Method
30.	Techniques of Mathematics Teaching- Learning	Co-operative Learning (Jigsaw Method, Think Pair- Share)	Learners will know about the Techniques of Mathematics Teaching-Learning	Lecture cum Discussion Method
31.	Evaluation in Teaching Learning Process	Formative, Summative and Diagnostic.	Learners will know about the Evaluation in Teaching Learning Process	Lecture cum Discussion Method Lecture cum Discussion Method
32.	Evaluation in Teaching Learning Process	Identification and analysis of mistakes in mathematics,	Learners will know about the Evaluation in Teaching Learning Process	Lecture cum Discussion Method
33.	Evaluation in Teaching Learning Process	prevention and suggested remedial measures	Learners will know about the Evaluation in Teaching Learning Process	Lecture cum Discussion Method
34.	Enrichment Programmes in mathematics learning	National mathematics Talent Search,	Learners will know about the Enrichment Programmes in mathematics learning	Lecture cum Discussion Method

35.	Enrichment Programmes in mathematics learning	Mathematics Olympiad.	Learners will know about the Enrichment Programmes in mathematics learning	Lecture cum Discussion Method
36.	Types of test items in mathematics.	Meaning, merits, limitations	Learners will be able to know about Types of test items in mathematics.	Lecture cum Discussion Method
37.	Types of test items in mathematics.	Construction of longanswer type, short answer type, very short answer type and objective type	Learners will be able to know about Types of test items in mathematics.	Lecture cum Discussion Method
38.	Types of test items in mathematics.	construction and standardization of an achievement test in mathematics	Learners will be able to know about Types of test items in mathematics	Lecture cum Discussion Method
39.	Action Research	Action Research in Mathematics	Learners will be able to know about Action Research	Lecture cum Discussion Method

### Sessional Work:

- Development of lesson plan.
- Development of achievement test

## **PAPER- Pedagogy Of Social Science Education-II**

**Course Code- E02-PSS-II**

**Total Marks= 100**

**External= 70**

**Internal= 30**

### **Objectives:**

After completion of the course, the students will be able to:

- Develop an understanding about the meaning, nature, scope of social sciences and social science education
- Find out the distinction and overlap between social sciences, humanities and liberal arts
- Understand the role of various methods and approaches of teaching social sciences
- Employ appropriate approach for transaction of social science curriculum
- Effectively use different media, materials and resources for teaching social sciences
- Construct appropriate assessment tools for teaching-learning of social sciences and undertake evaluation

<b>No. of Lectures</b>	<b>Topic</b>	<b>Lecture Description</b>	<b>Terminal behavior/ Learning outcomes</b>	<b>Pedagogical Tools</b>



1	Concept of social sciences	Definition, Meaning,	Learners will know about the concept of social sciences and are able to understand and reflect.	Lecture cum Discussion Method
2	Nature of social sciences	Nature, characteristics	Learners will be able to explain nature of social studies	Lecture cum Discussion Method
3	Existing approaches of teaching learning of social sciences	Meaning, definitions,	Learners will know about the concept of approaches to social studies.	Lecture cum Discussion Method
4	Existing approaches of teaching learning of social sciences	characteristics	Learners will know about the characteristics of approaches to social studies	Lecture cum Discussion Method
5	Existing approaches of teaching learning of social sciences	Types of approaches	Learners will know about the types of approaches to social studies	Lecture cum Discussion Method

6	Epistemological frame proposed in educational policy documents and various national curriculum frameworks concerning teaching-learning of social sciences	NPE 1986	Learners will know about the Epistemological frame proposed in NPE 1986	Lecture with situational examples
7	Epistemological frame proposed in educational policy documents and various national curriculum frameworks concerning teaching-learning of social sciences	Programme of action 1992	Learners will be able to know about the Epistemological frame proposed in NPE 1992	Lecture cum Discussion Method
8	Epistemological frame proposed in educational policy documents and various national curriculum frameworks concerning teaching-learning of social sciences	NCF 2005	Learners will be able to know about the Epistemological frame proposed in NCF 2005	Lecture cum Discussion Method

9	Epistemological frame proposed in educational policy documents and various national curriculum frameworks concerning teaching-learning of social sciences	NCF 2009	Learners will be able to know about the Epistemological frame proposed in NCF 2009	Lecture cum Discussion Method
10	Research perspectives in pedagogy of social science education	Definition, Meaning,	Learners will know about the concept of research perspectives in pedagogy of social sciences	Lecture cum Discussion Method
11	Research perspectives in pedagogy of social science education	Characteristics, Explanation.	Learners will be able to explain about research perspectives of social science education	Lecture cum Discussion Method
12	Approaches to organisation of social science curriculum; social science curriculum at various stages of school education	Definition, Meaning,	Learners will know about the concept of approaches of curriculum organization	Lecture cum Discussion Method

13	Approaches to organisation of social science curriculum; social science curriculum at various stages of school education: unit approach	Definition, Meaning, advantages, limitations	Learners will know about the concept of Unit approach	Lecture cum Discussion Method
14	Approaches to organisation of social science curriculum; social science curriculum at various stages of school education: chronological approach	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept Chronological approach	Lecture cum Discussion Method
15	Approaches to organisation of social science curriculum; social science curriculum at various stages of school education: topical approach	Definition, Meaning, advantages, limitations	Learners will know about the concept topical approach	Lecture cum Discussion Method
16	Approaches to organisation of social science curriculum; social science curriculum at various stages of school education: concentric approach	Definition, Meaning, advantages, limitations	Learners will know about the concept concentric approach	Lecture cum Discussion Method

17	Methodology of development of curricular materials viz., textbooks, workbooks,	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept curricular material, text book, work book	Lecture cum Discussion Method Blended Teaching (Use of ICT)
18	Methodology of development of curricular materials viz., teacher handbooks, teacher's education manuals.	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept curricular material, teacher hand book, teacher's educational manuals	Lecture cum Discussion Method Blended Teaching (Use of ICT)
19	Methodology of development of curricular materials viz. other content enrichment materials –their conceptualization and processes;	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept curricular material	Lecture cum Discussion Method
20	Critical appraisal of approaches to teaching learning social sciences – behaviourist approach;	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of behaviorist approach	Lecture cum Discussion Method

21	Critical appraisal of approaches to teaching learning social sciences – constructivist approach	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of constructivist approach	Lecture cum Discussion Method Blended Teaching (Use of ICT)
22	Critical appraisal of approaches to teaching learning social sciences – inter disciplinary approach,	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of inter disciplinary approach	Lecture cum Discussion Method Blended Teaching (Use of ICT)
23	Critical appraisal of approaches to teaching learning social sciences – integrated approach;	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of integrated approach	Lecture cum Discussion Method
24	Critical appraisal of approaches to teaching learning social sciences – childcentred approach	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of child centered approach	Lecture cum Discussion Method

25	Critical appraisal of approaches to teaching learning social sciences – environmental approach;	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of environmental approach	Lecture cum Discussion Method
26	Critical appraisal of approaches to teaching learning social sciences – the overlap between these approaches	Definition, Meaning, Characteristics, Explanation.	Learners will know about the overlap between approaches of teaching learning	Lecture cum Discussion Method
27	Critical appreciation of various learning-strategies: SQ3R (Survey, Questioning, Reading, Recite and Review),	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept SQ3R	Lecture cum Discussion Method Blended Teaching (Use of ICT)
28	Critical appreciation of various learning-strategies: Recite and Review), RAFT (Role, Audience, Format and Topic),	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of RAFT	Lecture cum Discussion Method Blended Teaching (Use of ICT)

29	Critical appreciation of various learning-strategies: Discussion.	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of discussion	Lecture cum Discussion Method
30	Critical appreciation of various learning-strategies: graphic organizers	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of Graphic organizer	Lecture cum Discussion Method Blended Teaching (Use of ICT)
31	Critical appreciation of various learning-strategies: cooperative learning	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of cooperative learning	Lecture cum Discussion Method
32	Alternative assessment: rubrics,	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept Rubrics	Lecture cum Discussion Method Blended Teaching (Use of ICT)
33	Alternative assessment: portfolios	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of portfolio	Lecture cum Discussion Method Blended Teaching (Use of ICT)
34	Alternative assessment: projects	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of Projects	Lecture cum Discussion Method Blended Teaching (Use of ICT)



35	Typology of questions as related to different subject areas viz., History, Geography, Political Science, Economics etc.	Definition, Meaning, Characteristics, Explanation.	Learners will know about the meaning of typology	Lecture cum Discussion Method Blended Teaching (Use of ICT)
36	Typology of questions as related to different subject areas viz., History, Geography, Political Science, Economics etc.	Typology of questions	Learners will know about the typology of questions	Lecture cum Discussion Method Blended Teaching (Use of ICT)
37	Evaluation of attitudes.	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of evaluation of attitudes	Lecture cum Discussion Method Blended Teaching (Use of ICT)
38	Evaluation of attitudes, values, etc.	Definition, Meaning, Characteristics, Explanation.	Learners will know about the concept of evaluation of attitudes, values	Lecture cum Discussion Method Blended Teaching (Use of ICT)

**Assignment :** Integration of ICT in teaching-learning of social science. Development of teaching-learning materials; workbook; activity book and self instructional materials.