

GHG KHALSA COLLEGE OF EDUCATION GURUSAR SADHAR LUDHIANA**UNIT PLANNING (SESSION 2023-25)****B.Ed (Semester I)****PHILOSOPHICAL BASES OF EDUCATION (F 1.1)****Total Marks: 50 External: 40 Internal Practical : 10**

Month	Topic	Method	Time Allotted	Resources
September	<p>UNIT-1 Conceptual Framework of Education</p> <p>a) Education: meaning, concept- Indian and Western.</p> <p>b) Types of education- formal, informal and non-formal. c) Role and functions of education in individual and national life.</p> <p>UNIT-2 Educational Philosophy</p> <p>a) Educational Philosophy: meaning, relationship between philosophy and education.</p>	Lecture cum discussion & Power Point Presentation	<p>(a) 4 lectures</p> <p>(b) 5 lectures</p> <p>(c) 5 lectures</p> <p>(a) 4 lectures</p>	<p>Philosophical and Sociological Bases of Education by KK Bhatia</p> <p>Philosophical Bases of Education by Dr. J.S. Walia</p>
October	<p>a) Philosophies of education: Idealism, Naturalism and Pragmatism.</p> <p>b) Educational philosophies: contribution of Dewey, Rousseau, Tagore and Gandhi.</p> <p>UNIT- 3 Facets of Knowledge</p> <p>a) Knowledge- Concept, nature and sources of knowledge.</p>	Lecture cum discussion & Power Point Presentation	<p>a) 5 lectures</p> <p>b) 6 lectures</p> <p>a) 4 lectures</p>	<p>Philosophical and Sociological Bases of Education by KK Bhatia</p> <p>Philosophical Bases of Education by Dr. J.S. Walia</p>

Nov & Dec	<p>b) Facets of knowledge- local and universal, concrete and abstract, theoretical and practical, contextual and textual, school and out of school and their relationship.</p> <p>c) Role of teacher in construction of knowledge.</p> <p>UNIT- 4 Values- Concept, types of values.</p> <p>b) Sources of values and erosion of values.</p> <p>c) Value Education- Role of education for inculcation of values.</p> <p>Sessional Work</p>	Lecture cum discussion & Power Point Presentation	<p>(a) 5 lectures (b) 6 lectures</p> <p>a) 5 lectures b) 6 lectures c) 5 lectures</p>	Philosophical and Sociological Bases of Education by KK Bhatia Philosophical Bases of Education by Dr. J.S. Walia
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GROWTH AND DEVELOPMENT OF THE LEARNER (F 1.2))**Total Marks : 50 External: 40 Internal Practical : 10**

Month	Topic	Method	Time Allotted	Resources
September	Concept, Characteristics and difference between growth and Development	Lecture cum discussion	2 lectures	Learner and learning process by Dr. Jasbir Kaur. (2017)
	Principles of growth and Development	Lecture cum discussion	2 lectures	Learner and learning process by Dr. Jasbir Kaur. (2017)
	Stages of Development with special reference to Adolescence	Sessional Assignment		
October	Theories of G & D: Piaget, Erickson, Kohlberg and Vygotsky	Self -Developed E content	4 lectures	You tube video
	Heredity and Environment	Lecture cum discussion + You tube videos	4 lectures	Growth and Development of the learner by J.S. Walia
	Sessional Work	Review of the Movie		Through Web resources
	Role of family, school and Society in Cognitive, Affective and Psychomotor Development	Lecture cum Discussion	4 lectures	Growth and Development of the learner by Dr. Vijay Laxmi
November	Role of Media on development aspect of children	Classroom Seminar	4 lectures	
	Understanding development of self -concept from various Perspectives	Group Discussion	4 lectures	
	Human Diversity	Lecture cum Discussion	2 lectures	Growth and Development of the learner by J.S. Walia
	Group Dynamics	Lecture	4 lectures	Advanced Educational Psychology by S.S. Chauhan
December	Discipline: Concept, Model and Methods	Lecture cum discussion	4 lectures	Growth and Development of the learner by J.S. Walia

TECHNIQUES OF TEACHING(F-1.3)

Total Marks : 50 External: 40 Internal Practical : 10

Month	Unit	Topic	Method	Time Allotted	Resources
September	UNIT- I: Teaching as a Profession	Teaching: Concept, nature, characteristic, principles and maxims.	Lecture cum discussion	8 lectures	Teaching Learning Process by Dr. J.S.Walia Educational Technology by R.A. Sharma
	UNIT -II: Teaching Technology	Micro Teaching: Concept, Procedure, Merits and Limitations	Lecture cum demonstration	6 Lectures	Educational Technology by Anand Bhushan & Malwinder Ahuja
	UNIT- I: Teaching as a Profession	Teaching as a Profession, professional ethics of teachers and Teacher accountability.	Lecture cum discussion	4 Lectures	The National Policy on Education (1986, p.25) Techniques of Teaching By K.K. Bhatia
	UNIT- I: Teaching as a Profession	Reflective teaching: concept and strategies for making teachers reflective practitioners.	Lecture cum discussion	2 lectures	Techniques of Teaching By K.K. Bhatia Educational Technology By J.S. Walia
October	UNIT -II: Teaching Technology	Skills of Micro Teaching (Introduction, Questioning, Explanation, Reinforcement, Stimulus)	Lecture cum demonstration	8 Lectures	Micro Teaching- B.K. Passi Self developed E content
	Sessional Work	Preparing and practicing any two micro skills.	Demonstration & Practice in ET Lab	3 lectures	Practical sessions
	UNIT -II: Teaching Technology	Simulated Teaching: Concept, Procedure, Merits and Limitations	Lecture cum discussion	2 lectures	Educational Technology by S.K. Mangal
	UNIT -II: Teaching Technology	Programmed Instructions and its Types,	Lecture discussion Project	6 lectures	Educational Technology by AnandBhushan&MalwinderAhuja Self developed E content
	UNIT -II: Teaching Technology	Computer Assisted Instruction (CAI)	Lecture discussion Project	2 Lectures	Educational Technology By K.L. Kumar

	UNIT-III: Models of Teaching	Models of Teaching: Concept, characteristics, assumptions and fundamental elements of a teaching Model	Lecture cum Discussion	2 Lectures	Educational Technology by S.K Mangal
November		Concept Attainment Model, Inquiry Training Model and Inductive thinking model	Lecture cum discussion	5 lectures	Educational Technology by S.K Mangal
	UNIT-IV: Teaching as Communication	Communication: Concept, Types, principles and barriers in communication.	Discussion and Assignment	2 lectures	Teaching Learning Process by Dr. J.S.Walia Educational Technology
		Multimedia in Education: Tele-Conferencing, Internet and use of multimedia presentation and Satellite Communication	Classroom Seminar	5 lectures	Techniques of Teaching By K.K. Bhatia
		Recent Trends in Teaching: e-learning. M-learning, Open educational resources, MOOCs and role of social media in teaching.	Lectures Blended Mode	5 Lectures	Techniques of Teaching By K.K. Bhatia, Web resource
December	Sessional Work	Enlist open education resources	Supervised Practicals Hands on in Computer lab	3 lectures	Exploring Web resource

EDUCATION IN CONTEMPORARY INDIA(F 1.4)

Total Marks: 50 External Theory: 40 Internal Practical: 10

Month	Unit	Topic	Method	Time Allotted	Resources
September	I	<p>a. Constitutional provisions – preamble, Fundamental right and Duties and constitutional values in the context of education.</p> <p>b Meaning of Diversity, inequality and Marginalization (Economic, Social, Religious, Language) in society in implication for education</p> <p>c. Impact of Liberalization, Privatization, Globalization (LPG) on School education of India.</p>	Lecture cum discussion, PowerPoint Presentation	10 lectures	Contemporary India and Education, written by JS Walia and Inderdev Singh Nandra
October	II	<p>a. Post- independence era: University Education Commission (1948-49) Secondary Education Commission (1952-53), Kothari Commission (1964-66),</p> <p>b.National Policy of Education (1968, 1986), Programme of Action (1992): Major recommendations</p> <p>c. National Curriculum Framework for School Education’ (NCF)-2005</p>	Classroom Presentation by students (Roll No. wise) on various commissions described	10 lectures	Policy Documents from the College library will be consulted
November	III	<p>a. Yash Pal Committee Report (1993) ‘Learning without burden’.</p> <p>b. Rashtriya Madhyamik Shiksha Abhiyan (RMSA)</p> <p>c. Rashtriya Uchchatar Shiksha Abhiyan (RUSA).</p>	Lecture cum discussion method	6 lectures	Policy Documents from the Library will be consulted

December	IV	<p>a. Contemporary Indian schools: types, functioning and problems.</p> <p>b. Sarv Shiksha Abhiyan (SSA)</p> <p>c. Right of children to free and compulsory education act- 2009.</p>	<p>Lecture cum discussion</p> <p>Students to make report on SSA with the help of various online and offline resources</p> <p>Lecture Cum discussion</p>	8 lectures	<p>Contemporary India and Education, written by JS Walia and Inderdev Singh Nandra</p>
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P-1.1& P- 1.2

PEDAGOGY OF ECONOMICS

TOTAL MARKS: 50 External Theory 40 Internal Practical 10

MONTH	TOPIC	METHODOLOGY	RESOURCES	PERIODS
September	<p>UNIT I: Economics: Context and Concerns Concept, importance and scope of Economics as a school subject.</p> <p>Understanding Economics in relation to Commerce, History, Geography, Civics, Mathematics, Statistics, Agriculture and Science</p>	Lecture cum Discussion Method, Inductive Deductive Method	PPTs, E-content videos	<p>3</p> <p>2</p>
October	<p>Aims and Objective of teaching of Economics at Secondary Level in light of NCF- 05.</p> <p>Unit - II: Pedagogical Issues</p> <p>Methods of Teaching: Lecture, Discussion Method, Inductive- deductive method, Project Method, Survey Method, Cooperative learning Method</p>	Lecture cum Discussion Method, Project method Assignments	PPTs, E-content videos	<p>4</p> <p>4</p> <p>4</p>
November	<p>Techniques of Teaching: Supervised Study, Jurisprudential Enquiry, Dramatization, Brain-Storming, Field trip and Simulation</p> <p>UNIT III: Curriculum and Professional Development</p> <p>Concept of curriculum and role of curricula in development of economic values and critical thinking.</p> <p>Text- Books; Importance and Qualities, Supplementary Material.</p>	Lecture cum Discussion Method,	PPTs, E-content videos	<p>4</p> <p>2</p> <p>3</p> <p>4</p> <p>4</p>

December	<p>Economics Teacher: Qualities and Professional development (concept, need and ways of professional development)</p> <p>UNIT IV: Content from NCERT Text books</p> <p>Sectors of Indian Economy Agriculture and national Economy Poverty as challenge</p> <p>ASSIGNMENT: Economics Teacher: Qualities and Professional development (concept, need and ways of professional development)</p>	<p>Lecture cum Discussion Method, model based method {Hilda taba model}</p>	<p>PPTs, E-content videos</p>	<p>4</p> <p>4</p> <p>4</p>
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P-1.1 & P-1.2

PEDAGOGY OF MATHEMATICS

Total Marks: 50 External Theory: 40 marks, Internal Practical: 10 Marks

Month	Unit	Topic	PA	Mode of Teaching	Resource
September	I(a)	Concept of Mathematics: Meaning	2	PPT	My Blog
	I(a)	Concept of Mathematics: nature (Truth, logic, reasoning, mathematical language & symbolism)	4	Handouts followed by discussion	Textbook for Two-Year B.Ed Course (Pedagogy of Mathematics)
	II(a)	Need for establishing general objectives for teaching mathematics;	2	Handouts followed by discussion	Own Prepared Notes (PDF/PPT)
	II(a)	Study of the aims and general objectives of teaching mathematics vis-à-vis the objectives of school education;	5	Discussion followed by PPT	Teaching of Mathematics(S.C. Gakkar)
	II(b)	Writing specific objectives and teaching points of various content areas in mathematics like Algebra, Geometry, Trigonometry with special reference to Bloom's Taxonomy	5	Lecture through PPT & Workshop	Textbook for Two-Year B.Ed Course (Pedagogy of Mathematics)
	I(a)	Concept of Mathematics: building blocks of Mathematics (Axioms, Propositions, Postulates, Quantifiers)	4	Handouts followed by discussion	Textbook for Two-Year B.Ed Course (Pedagogy of Mathematics)
	I(b)	Mathematical propositions-Types (truth values, truth tables, Open sentences, logically valid conclusions, implications - necessary and sufficient conditions)	4	Lecture & discussion	Textbook for Two-Year B.Ed Course (Pedagogy of Mathematics)
	II(c)	Approaches - Activity based, Inductive- Deductive, Analytic-synthetic and Problem Solving.	5	Group Discussion	Blog
	I(b)	Proofs (direct, converse, inverse and contrapositive)	3	Discussion by sharing examples	NCERT Books
	I(c)	Contribution of mathematicians - Aryabhatta, Ramanujan, Pythagoras & Euclid;	1	Assignment	Preferred Book SC Gakkar, SK Mangal NCERT Book
October	I(c)	Aesthetics by Birkhoff.	1	Handouts followed by discussion	Textbook for Two-Year B.Ed Course (Pedagogy of Mathematics)
	III(a)	Textbooks- need, importance,	2	Lecture through	Own Prepared Notes

		quality		PPT	(PDF/PPT)
	III(b)	Audio-visual multimedia– Selection and designing	2	Handout followed by Discussion	Textbook for Two- Year B.Ed Course (Pedagogy of Mathematics)
	III(c)	Using community resources for mathematics learning, pooling of learning resources in school complex/block/district level, handling hurdles in utilising resources.	3	Discussion by sharing Examples	Textbook for Two- Year B.Ed Course (Pedagogy of Mathematics)
	IV(a)	Concepts: Meaning, nature, concept formation and concept assimilation; Concept Attainment Model in teaching mathematics	4	Lecture through PPT	Own Prepared Notes(PDF/PPT)
House Examination					
Nov/Dec	IV(b)	Cooperative Learning: concept and approaches	4	Brainstorming	Own Prepared Notes(PDF/PPT)
	IV(c)	Supplementary text material,	3	Lecture & discussion	Book-Dr. ParvinderKaur
	IV(c)	Summer programmes	2	Discussion followed by PPT	Own Prepared Notes(PDF/PPT)
	IV(c)	Correspondence course	2	Lecture & discussion	Own Prepared Notes(PDF/PPT)
		Any two of the following: • Analysis of PSEB textbook of any one class from VI to X • Analysis of famous quotations on Mathematics • Preparing Instructional aids			

P-1.1 & P-1.2

PEDAGOGY OF SOCIAL STUDIES

Total Marks: 50 External Theory: 40 marks, Internal Practical: 10 Marks

Month	Unit	Topic	Method	Time Allotted	Resources
September	UNIT- I: Concept of Social Studies	Concept, scope and nature of Social Studies, Distinguish between Social Studies and Social Science.	Lecture cum discussion	8 lectures	Teaching of Social studies by Dr. J.S.Walia Self developed e-content
		Correlation of Social studies with Social Science, Languages, Mathematics, Arts and Science.	Lecture cum demonstration	4 lectures	The teaching of Social Studies by SK Kochar
		Aims and Objectives of teaching Social Studies at middle and secondary school level with reference to Bloom's Taxonomy	Lecture cum discussion	4 lectures	Educational Technology by S.K. Mangal Teaching of Social studies by Dr. J.S.Walia Self developed content The teaching of Social Studies by BK Sahu
October	UNIT- II: Methods and Techniques of teaching Social Studies	Lecture Method, Discussion Method and Problem Solving Method b) Project Method, Source Method, Socialized recitation method	Lecture cum discussion	12 lectures	Techniques of Teaching By K.K. Bhatia Educational Technology By J.S. Walia
		Techniques of Teaching: Explanation, Supervised Study, Jurisprudential Enquiry, Dramatization, Brain-Storming, and Field Trip.	Lecture cum demonstration	10 Lectures	Techniques of Teaching By K.K. Bhatia Teaching of Social studies by Dr. J.S.Walia Resources from the web
		Sessional Work PowerPoint presentation based seminar on the contributions of any one eminent Social reformists: Guru Nanak Dev Ji, Raja Ram Mohan Rai, Dr. B.R. Ambedkar, Swami Vivekananda, Vinoba Bhave, Abraham Lincoln, Mahatma Jyoti Rao Phule, Yousafzai Malala, Kailash Satyarthi, and Nelson Mandela	Discussion & Seminar	2 lectures	Web exploration and library visits
November	UNIT -III Curriculum and Teaching	a) Social Studies curriculum at secondary stage-Features, issues and Recommendations of NCF 2005.	Lecture cum discussion	4 lectures	NCF document by Govt. Of India

	Learning Material	Resource for Learning (Primary and Secondary) - Meaning, examples, Advantages and limitations. Dale's Cone of Experiences.	Lecture discussion Project	4 lectures	Educational Technology by S.K. Mangal Web resources
		Maps, Charts, Globe, Graphs, Models (Working & Still), Realia and specimens, and Multimedia as teaching aids in Social studies teaching.	Lecture discussion	6 Lectures	Teaching of Social studies in elementary schools by Wesley Cartwright Educational Technology by Venkataiah
	Sessional work	Qualitative Analysis of Social Studies Curriculum (secondary school stage) - PSEB/ CBSE/ICSE.	Discussion and project work	2 lectures	Curriculum as prescribed by PSEB/ CBSE/ ICSE boards
December	UNIT IV: Current trends in Teaching of Social Studies	a)ICT Based Approach- Power Point Presentations and e-learning. b)Cooperative Learning Approach- Concept, Procedure, advantages and Limitations c) Constructivist Approach- Meaning, Characteristics, Strengths and Limitations.	Lecture cum Discussion	6 Lectures	Pedagogy of Social Studies by AnuragSankhian Pedagogy of Social Studies by Deep Shikha and Gagandeep Singh A Text Book of Curriculum, Pedagogy and Evaluation by Dr. SK Bhatia & Dr. Sonia Jindal
	Sessional work	PowerPoint presentation based seminar on the contributions of any one eminent Social reformists: Guru Nanak Dev Ji, Raja Ram Mohan Rai, Dr. B.R. Ambedkar, Swami Vivekananda, Vinoba Bhave, Abraham Lincoln, Mahatma Jyoti Rao Phule, YousafzaiMalala, KailashSatyarthi, and Nelson Mandela	Discussion and seminar	6 lectures	

P-1.1 & P-1.2

PEDAGOGY OF COMMERCE

Total Marks: 50 External Theory: 40 marks, Internal Practical: 10 Marks

MONTH	TOPIC	METHODOLOGY	RESOURCES	PERIODS
September	COMMERCE: Meaning, Nature and Scope.	Lecture cum Discussion Method, Inductive Deductive Method	PPTs, E-content videos	3
	Correlation of Commerce with Economics, Mathematics, Social Science and Geography.			2
October	Aims and Objectives of teaching commerce with special reference to Blooms Taxonomy of Educational Objectives	Lecture cum Discussion Method, Project method Assignments	PPTs, E-content videos	4
	Methods of Teaching Commerce			4
	Techniques of Teaching Commerce			4
	ASSIGNMENT: Achievement Test			
November	Instructional Material in Commerce	Lecture cum Discussion Method,	PPTs, E-content videos	4
	Criterion for the selection of effective instructional material			2
	Discussion and Presentations by students on assigned topic: Construction of Achievement Test			3
	Construction of unit tests, objective based test items in commerce			4
	Diagnostic Tests Remedial Teaching in Commerce			4
	House Tests Sessional Work: Construction of Objectives Test Items on any topic of commerce			
December	Role of Seminar, Workshops and Projects for quality improvement	Lecture cum Discussion Method, model based method {Hilda taba model}	PPTs, E-content videos	4
	Internship in Teaching Commerce			4
	Multimedia in Learning Commerce			4

P-1.1 & P-1.2**PEDAGOGY OF ENGLISH****Total Marks: 50 External Theory: 40 Internal Practical: 10****UNIT-1: Introduction**

S.No.	Topics	Mode/ Resources	Month	Tentative lectures
(a)	Meaning and Nature of the Language, English language in Indian Context (English as a colonial language, English in post-colonial times, Status of English Language in present context.)	Lecture, flipped classroom teaching, Discussion / pdf notes & Power point Presentation	September	4
(b)	Objectives, Principles (Linguistic and General), Maxims of Teaching English, Conditions of teaching - learning English in Indian Schools, Suggestions for improvement.	Lecture cum discussion/ Book by K.K Bhatia and Dr. S.S Wadhwa		4
(c)	Different Methods and Approaches of Teaching English in Schools (Grammar Translation Method, Direct Method, Structural Approach, Communicative Approach)	Video Presentation, PPT, Discussion/Book by K.K Bhatia and Notes in pdf form		5

UNIT-2: Methods and Techniques

(a)	Importance of Listening and Speaking in Language Teaching, Developing listening and speaking skills, Phonetics- Phonetic transcription (Vowels, Consonants and Diphthongs), Features of Connected Speech (Stress, Intonation, Rhythm and Juncture).	Lecture cum demonstration method / Visit to language lab and teaching through modules in the Language lab PPT and book by K.K Bhatia and Dr. S.S Wadhwa	October	7
(b)	Teaching Mechanics of Reading: Methods of teaching Reading, Types of Reading (Intensive Reading and Extensive Reading) Importance of Loud Reading and Silent Reading, Reading Comprehension, Use of Dictionary and Thesaurus	Lecture cum demonstration, notes in pdf / Upload on LMS		9
(c)	Teaching Mechanics of Writing: Essential marks of good handwriting, Importance of Writing Skill, Causes of Spelling Mistakes and Suggested Remedies.	Lecture/Classroom Presentation by students		3

UNIT-3: Resource Material				
(a)	Language Course Book-Importance, Characteristics and Review	Assignment/ Lecture cum demonstration, Field visit, notes in the form of pdf	November	6
(b)	Library-Importance, Management of Library, Role of Language Library in developing reading habits among the students.	Field Visit/Lecture/Discussion, notes in the form of pdf		6
(c)	Language Curriculum-Meaning, Importance and Principles of Curriculum Construction.	Subject seminar PowerPoint Presentation, Discussion Method		5
UNIT-4:Content				
(a)	Parts of Speech	Videos , Written Practice sessions	December	6
(b)	Antonyms, Synonyms and One Word Substitution	Practice Sessions, Notes pdf, Wren and Martin Grammar book.		3
(c)	Sentences-Types of Sentences, Transformation of Sentences, Punctuation.	Inductive-Deductive , written Practice session		5
	SESSIONAL WORK			

Pedagogy of Punjabi (P-1.1 & P-1.2)
Total Marks: 50 External Theory: 40 Internal Practical: 10

Month	Unit	Topic	Method	Time Allotted	Resources
September	ਇਕਾਈ 1	ਭਾਸ਼ਾ-ਪਰਿਭਾਸ਼ਾ	Lecture cum discussion through Zoom platform. Assignment of second part was given to the students	2 lecture	Book written by Inderdev Nandra
		ਭਾਸ਼ਾ - ਆਧਾਰ, ਪ੍ਰਕਿਰਤੀ,	Lecture cum discussion through Zoom platform. Assignment of second part was given to the students	3 lectures	
		ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਨਿਕਾਸ ਅਤੇ ਵਿਕਾਸ	Lecture cum discussion through Zoom platform. Assignment of second part was given to the students	4lectures	
		ਲਿਪੀ ਦੀ ਅਰਥ, ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੀ ਪ੍ਰਚੀਨਤਾ ਅਤੇ ਅਨੁਕੂਲਤਾ	Lecture cum discussion through Zoom platform. Assignment of second part was given to the students	4 lectures	
		ਮਾਤਭਾਸ਼ਾ ਦੀ ਸਿੱਖਿਆ ਦੇ ਉਦੇਸ਼	Lecture cum discussion through Zoom platform. Assignment of second part was given to the students	3 lectures	

		ਮਾਤਭਾਸ਼ਾ ਦੀ ਸਿੱਖਿਆ ਦੇ ਮਹੱਤਵ	Lecture cum discussion through Zoom platform. Assignment of second part was given to the students	3 lectures	
October		ਮਾਤਭਾਸ਼ਾ ਦੀ ਸਿੱਖਿਆ ਦੇ ਸਿਧਾਂਤ	Lecture cum discussion through Zoom platform. Assignment of second part was given to the students	2 lectures	
		ਮਾਤਭਾਸ਼ਾ ਦੀ ਸਿੱਖਿਆ ਦੇ ਸੂਤਰ	Lecture cum discussion through Zoom platform. Assignment of second part was given to the students	2 lectures	
November	ਇਕਾਈ 2	ੳ) ਭਾਸ਼ਾ ਸਿੱਖਿਆ ਵਿੱਚ ਸੁਣਨ ਅਤੇ ਬੋਲਚਾਲ ਦਾ ਮਹੱਤਵ, ਸੁਣਨ ਸ਼ਕਤੀ ਦੇ ਵਿਕਾਸ ਲਈ ਲੋੜੀਂਦੇ ਅਭਿਆਸ, ਚੰਗੀ ਬੋਲਚਾਲ ਦੇ ਗੁਣ, ਅਸੁੱਧ ਉਚਾਰਨ ਦੇ ਕਾਰਨ ਅਤੇ ਸੁਧਾਰ।	Lecture cum discussion online as well as online teaching	6 lectures	Book written by Sekhon and Sekhon
		ਅ) ਪੜ੍ਹਨਾ ਸਿਖਾਉਣ ਦੀਆਂ ਵਿਧੀਆਂ ਅਤੇ ਪੜ੍ਹਾਈ ਸਿਖਿਆ ਦੀਆਂ ਕਿਸਮਾਂ – ਸੁਖਮ ਪੜ੍ਹਾਈ ਅਤੇ ਸਥੂਲ ਪੜ੍ਹਾਈ, ਉਚੀਪਾਠ ਅਤੇ ਮੈਨਪਾਠ ਦਾ ਮਹੱਤਵ।	Lecture cum discussion online as well as online teaching	7 lectures	Book written by Sekhon and Sekhon
		ੲ) ਲਿਖਣ ਕਲਾ ਦਾ ਮਹੱਤਵ, ਲਿਖਣਾ ਸਿਖਾਉਣ ਦੀਆਂ ਅਵਸਥਾਵਾਂ ਅਤੇ ਅਸੁੱਧ ਸ਼ਬਦ-ਜੋੜਾਂ ਦੇ ਕਾਰਨ ਅਤੇ ਸੁਧਾਰ।	Lecture cum discussion online as well as online teaching	7 lectures	Book written by Sekhon and Sekhon
	ਇਕਾਈ 3	ੳ) ਮਾਤ-ਭਾਸ਼ਾ ਦੀ ਪਾਠ-ਪੁਸਤਕ ,ਮਹੱਤਵ, ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਅਤੇ ਸਮੀਖਿਆ	Lecture cum discussion online as well as online teaching	3 lectures	Book written by Dr. Tirath Singh Grammar Books published by

					Punjab School Education Board.
December		ੳ) ਮਾਤ-ਭਾਸ਼ਾ ਦੀ ਪਾਠ-ਪੁਸਤਕ ਦੀ ਸਮੀਖਿਆ		2 lectures	Book written by Dr. Tirath Singh Grammar Books published by Punjab School Education Board.
		ਅ) ਭਾਸ਼ਾ ਪੁਸਤਕਾਲਾ-ਮਹੱਤਵ, ਵਿਵਸਥਾ ਅਤੇ ਪੜ੍ਹਨ ਰੁਚੀਆਂ ਦਾ ਵਿਕਾਸ		4 lectures	Book written by Dr. Tirath Singh Grammar Books published by Punjab School Education Board.
		ੲ) ਮਾਤਭਾਸ਼ਾ ਦਾ ਪਾਠਕ੍ਰਮ- ਅਰਥ, ਮਹੱਤਵ ਅਤੇ ਨਿਰਮਾਣ ਦੇ ਸਿਧਾਂਤ		4 lectures	Book written by Dr. Tirath Singh Grammar Books published by Punjab School Education Board.
	ਇਕਾਈ4	ੳ) ਵਰਨਬੋਧ- ਸਵਰ, ਵਿਅੰਜਨ, ਅਨੁਨਾਸਿਕ, ਦੁੱਤ ਅੱਖਰ, ਲਗਾਂ-ਮਾਤਰਾਂ, ਲਗਾਖਰ।		4 lectures	Book written by Dr. Tirath Singh Grammar Books published by Punjab School Education Board.
		ਅ) ਸ਼ਬਦਬੋਧ- ਸ਼ਬਦਾਂ ਦੇ ਭੇਦ, ਸ਼ਬਦ ਰਚਨਾ, ਵਿਰੋਧੀ ਸ਼ਬਦ, ਬਹੁਤੇ ਸ਼ਬਦਾਂ ਦੀ ਥਾਂ ਇੱਕ ਸ਼ਬਦ, ਬਹੁ-ਅਰਥਕ ਸ਼ਬਦ		4 lectures	Book written by Dr. Tirath Singh Grammar Books published by Punjab School Education Board.
		ੲ) ਵਾਕਬੋਧ-ਪ੍ਰਕਾਰ, ਵਾਕਵਟਾਂਦਰਾ, ਵਿਸਰਾਮ ਚਿੰਨ੍ਹ।		4 lectures	Book written by Dr. Tirath Singh Grammar Books published by Punjab School Education Board.

PEDAGOGY OF SCIENCE P-1.1 & P-1.2

Total Marks: 50 External Theory: 40 Internal Practical: 10

Unit Name: Unit-I: Introduction
September,2023 to October,2023

Summary of Unit: Meaning, nature and scope of science, Aims and objectives of Teaching Science, Formulation of specific objectives.

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

- Understand the nature of science and appreciate science as dynamic and expanding body of knowledge.
- Comprehend Educational and Instructional objectives of teaching science
- Identify and formulate aims and objectives of science teaching.

Resources: Teaching of Science books, PPT of Blooms' Taxonomy of Educational objectives (revised form also)

Lesson 1 Title: a) Meaning, nature and scope of science, impact of science and technology on society. Time -1 lecture

Lesson 2 Title b) Aims and objectives of Teaching Science - Blooms' Taxonomy of Educational objectives (revised form also), Instructional objectives of teaching science at secondary and senior secondary level. Time -7 lectures

Lesson 3 Title: Formulation of specific objectives in behavioral terms (Mager's approach and RCEM approach). Time -5 lectures

Assignment and Activities: Impact of science and technology on society.(To be submitted in 15 days)

Evaluation: Formulation of specific objectives in behavioral terms (Mager's approach)

Unit Name: Unit-II: Methods and Techniques in Science Teaching :

October, 2023 -November ,2023

Summary of Unit: Methods and Approaches of Teaching Science

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

- Understand and use various methods and approaches of teaching science
- Develop scientific attitude among the students

Resources: Teaching of Science books,PPT of Cooperative learning

Lesson 1 Title: a) Methods of Teaching Science- Problem solving method, Lecture cum demonstration method, Project method Time -7 lectures

Lesson 2 Title b) Approaches of Teaching Science: Inductive and Deductive approach, Cooperative learning, inquiry based approach. Heuristic approach. Time -8 lectures

Lesson 3 Title: Scientific Attitude and its development. Time -3 lectures

Assignment and Activities-Cite examples of Inductive Deductive approach.

Evaluation: Most suitable method of teaching in Secondary Schools

Unit Name: Unit- III: Instructional Material and Aids :

October, 2023 -November ,2023

Summary of Unit: Methods and Approaches of Teaching Science

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

- Select and use appropriate learning resources in science
- Understand importance & classification of Instructional resources in Science..

Resources: Teaching of Science by VK Kohli ,Edgar Dale 's Cone of Experience

Lesson 1 Title: a) Instructional resources in Science: Meaning, importance, classification Time-4 lectures

Lesson 2 Title b) Principles of selection and use of various instructional aids such as Chalk Board, Charts, Models and animations. Time -4 lectures

Lesson 3 Title:c) E-learning: concept, and use of e-books and e-journals in science. Time -3 lectures

Assignment and Activities-E learning resources in teaching science.

Evaluation: Edgar Dale's Classification

Unit Name: Unit-IV Current Trends in Science Education : February 2022

October, 2023 -November ,2023

Summary of Unit: Current Trends in discipline-centred as well as interdisciplinary teaching learning in Sciences.

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

- Understand the current trends in teaching of science
- Comprehend the significance of CBC
- Gain knowledge about Innovations and initiatives in Science Education

Resources: PDF s and PPT s on various subtopics.

Lesson 1 Title: a) MOOC platforms for Science Education and their relevance for teachers and students Time-3 lectures

Lesson 2 Title b) CBCS: Concept, Need and Significance for discipline-centred as well as interdisciplinary teaching learning in Sciences. Time -4 lectures

Lesson 3 Title:c) Promotion and Innovation in Science Education: Meaning, Importance and Initiatives (Such as KVPY, IISERs, HBCSE, Science Olympiads). Time -4 lectures

Assignment and Activities-Importance and Initiatives in KVPY, Science Olympiads).

Evaluation: CBCS

Unit Name: Sessional Work (Internal)

Summary of Unit: 1) Contribution of any two Nobel Prize winners in science,

2) General Information about any two Scientific Institutes of national Importance.

3) Information about five journals contributing in the field of Science

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

- Enlist the Contribution of Nobel Prize winners and Scientific Institutes

Evaluation: File to be submitted in hard copy as well as soft form . Time-1 month

B.Ed (Semester II)**SOCIOLOGICAL BASES OF EDUCATION (F4.1)****Total Marks: 50 External Theory: 40 Internal Practical: 10**

Month	Topic	Method	Time Allowed	Resources
March	UNIT- 1 Education and Sociology- a) Concept, nature and relationship between education and sociology. b) Socialization: role of family, peer, and school. c) Social mobility and education. UNIT- 2 Educational and Society- a) Nature and aspirations of Indian society. Indian society and education.	Lecture cum discussion & Power Point Presentation	(a)4 lectures (b) 6 lectures © 5 lectures 5 lectures	Sociological Bases of Education by Inderdev Nandra Sociological Bases of Education by Dr. J.S. Walia
April	b) Society as a determinant of aims of education. c) National Development and Education: concept, scope and indicators of national development. UNIT- 3 Education and Culture- a) Culture: concept, characteristics and its interactions with education.	Lecture cum discussion & Power Point Presentation	5 lectures 7 lectures 6 lectures	Sociological Bases of Education by Inderdev Nandra Sociological Bases of Education by Dr. J.S. Walia
May	b) Social change: concept and factors responsible for social change. c) Education And its role in the presence of cultural and social change. UNIT- 4 Education in Socio-Political context- a) Education in and for Democracy. b) Education for national and emotional integration. c) Education for international understanding and global peace.	Lecture cum discussion & Power Point Presentation	7 lectures 4 lectures 4 lectures 4 lectures 5 lectures	Sociological Bases of Education by Inderdev Nandra Sociological Bases of Education by Dr. J.S. Walia

UNDERSTANDING THE LEARNER (F 2.2)**Total : 50 External : 40 Internal : 10**

Month	Topic	Method	Time allotted	Resources
March	Concept, Nature and Characteristics of Learning	Lecture cum discussion	2 lectures	Learner and Learning Process by Dr. Jasbir Kaur
	Factors affecting Learning	Group Discussion	3 lectures	Learner and Learning Process by Dr. Jasbir Kaur
	Theories of Learning (S-R) and Insight Theory	Lecture cum Discussion	3 lectures	Advanced Educational Psychology by Dr. S.K. Mangal
	Transfer of learning: Concept and Types Theories and Implications	Sessional Assignment		
	Mental Health: Meaning, Importance, causes of mental illness and improvement of mental health	Classroom Seminar	2 lectures	
April	Motivation: Meaning and types	Lecture cum Discussion	3 Lectures	Educational Psychology by Dr. J.S. Walia
	Techniques and Educational Implications	Group Discussion	4 lectures	
	Intelligence: Meaning and Theories	Lecture cum discussion	6 lectures	Educational Psychology by Dr. J.S. Walia
	Measurement of Intelligence	Lecture Method	4 lectures	
	Uses and Limitations of Intelligence Tests	Lecture cum discussion	2 lectures	Psychology for Individual and Social Development by Dr. jasbir Kaur
	Emotional Intelligence: Concept, Dimensions and Role of Teachers	Extension Lecture	4lectures	Educational Psychology by Dr. J.S. Walia
	Sessional Work : Administration and Interpretation of Intelligence Tests	Demonstration	2 Lectures	Manual, Booklet of Jalota's Group Test of Intelligence
May	Creativity: Concept, difference between Creativity and Intelligence	Brainstorming Sessions	3 lectures	Psychology for Individual and Social Development by Dr. jasbir Kaur

	Identification of Creative Child	Lecture cum Discussion	2 lectures	Educational Psychology by Dr. J.S. Walia
	Methods of Nurturing Creativity	Group Discussion/ Participatory Learning	3 lectures	Psychology for Individual and Social Development by Dr. jasbirKaur
	Education of Children with special needs: Meaning, Types: Gifted, Delinquent and Educationally Backward	Power point Presentation	5 lectures	Educational Psychology by Dr. J.S. Walia
	Identification and Interventions	Lecture cum Discussion	5 lectures	Educational Psychology by Dr. J.S. Walia
	Elementary Educational Statistics: Measures of Central Tendency	Demonstration	5 lectures	Self developed e –content
	Measures of Variability	Demonstration	5 lectures	Self developed e –content
	Measures of Relationship	Demonstration	6 lectures	Self developed e –content

ASSESSMENT FOR LEARNING (F 2.3)

Total Marks: 50 External Theory: 40 Internal Practical: 10

Month	Unit	Topic	PA	Mode of Teaching	Source
March	I(a)	Basic Concepts: Assessment for learning, assessment of learning, test, examination, measurement, evaluation.	4	Discussion followed by PPT	Own Prepared topic through my Blog https://learningmaterialghg.blogspot.com/
	II(a)	Test: Types (Essay, Objective, Objective based); characteristics of good tools (validity, reliability and usability).	5	Discussion Method followed by Giving Print outs to students	Self prepared PDF
	II(b)	Construction of a Test: Planning (Blue Print), Preparation, Try Out and Evaluation	6	Demonstration of Blue print on Black Board followed by Workshop of Preparing blue print in class	Pedagogy of Mathematics 2 Year B.Ed. NCERT book
	I(c)	Types of evaluation-Teacher made and standardized tests,	4	Discussion Method followed by Student Activity to differentiate these terms	Own Prepared Notes(PPT/PDF) Through LMS
April	I(c)	Norm referenced and criterion referenced testing;	3	Discussion Method followed by Student Activity to differentiate these terms	Own Prepared Notes(PPT/PDF) Through LMS
	II(c)	Techniques of Assessment: Project work, Assignments, Practical work, Performance based activities.	2	Demonstration method followed by Assignment Method	e-content Development and upload on LMS
	III(a)	Scoring procedure - manual and electronic, development of Rubrics	4	Handouts followed by discussion and Demonstration	Own prepared notes

	I(b)	Objectives and Purpose of Assessment – Behaviorist and Constructivist Paradigm	4	Handouts followed by discussion	e-content Development and upload on LMS
May	III(b)	Analysis and Interpretation: Calculation of percentages, Frequency distribution, Percentile Rank, Pie Chart, Bar Graph, Histogram, Frequency Polygon,	8	Handouts followed by solving live examples.	Hard as well as soft copy in the form of PDF Shared with students
	IV(a)	Existing Practices: Continuous and Comprehensive Evaluation (CCE), Grading, Choice Based Credit System, Feedback in Improving learning and learners' development.	5	Lecture through PPT	Own Prepared Notes(PPT/PDF) shared on LMS as well as Assessment for Learning by Dr. Sukhwinder Singh
	IV(b)	Issues and Problems: Non-Detention Policy, the menace of coaching.	5	Handouts followed by discussion	Own Prepared Notes(PPT/PDF) shared on LMS as well as Assessment for Learning by Dr. Sukhwinder Singh
	III (c)	Normal probability Curve- Meaning, characteristics and uses.	4	Lecture through PPT	Own prepared video shared through LMS
	IV (c)	Emerging Practices in Assessment: Standard Based Assessment, Online, Computer Based and Open Book Examinations.	6	Lecture through PPT	Shared own prepared videos through LMS
In the month of April		Techniques of Assessment: Project work, Assignments, Practical work, Performance based activities.		Assignment	Through LMS online Mode

CURRICULUM AND UNDERSTANDING THE DISCIPLINES (F-2.4)**Total Marks: 50 External Theory: 40 Internal Practical: 10****UNIT-1: Conceptual Framework of Curriculum**

S.No.	Topics	Mode/ Resources	Month	Tentative lectures
1.	a) Curriculum: Concept and Importance	Lecture Method / Notes in the form of pdfs / docs shared with students through LMS	March	05
2.	(b) Principles of Curriculum Construction	Discussion Mode, Classroom notes and pdf uploading on LMS	March	06
3.	(c) Types of Curriculum: Core curriculum and Hidden curriculum	Classroom Lectures and Discussion Methods, Notes in the form of pdfs / docs shared with students through LMS	March	07
UNIT-2 : : Essentials of Curriculum				
4.	Approaches to Curriculum Development: Subject Centered, Learner Centered and Community Centered.	Assignments/ Classroom Presentations by Students, Notes in the form of pdfs / docs shared with students through LMS	March	09
5.	(b) Role of teacher in Curriculum Development	Classroom seminars by the students (To be assigned Roll No. Wise)	April	04
6.	c) Curriculum visualized in NCF (2005)	Lecture and Discussions, Notes in the form of pdfs / docs shared with students through LMS	April	07
UNIT-3 Essentials of Curriculum				
7.	Approaches to Curriculum Development: Subject Centered, Learner Centered and Community Centered.	Classroom Lectures, Notes in the form of pdfs / docs shared with students through LMS, PowerPoint Presentations	April	05
8.	b) Role of teacher in Curriculum Development	Lecture method will be employed and the notes will be shared in the form of presentations and pdfs through LMS	April	09
9.	(c) Curriculum visualized in NCF (2005)	Discussion, Notes in the form of pdfs / docs shared with students through LMS	May	05
UNIT-4 Analyzing Relationship between School Subjects				

10.	(a) Nature, Importance and Historical Perspective of Science, Social Science, Mathematics and Languages	Lectures cum demonstration Mode Notes in the form of pdfs / docs shared with students through LMS	May	06
11.	(b) Correlation among different school subjects (Science, Social Science, Mathematics and Languages) and its effect on curriculum framework	Lecture cum demonstration method. Powerpoint Presentations, Videos related with the topics, Notes in the form of pdfs / docs shared with students through LMS	May	05
12.	c) Changes in school subjects in terms of social, political and intellectual context	Discussion method, notes to be provide in the form of pdfs through LMS	May	2

SCHOOL MANAGEMENT (F-2.5)**TOTAL MARKS: 50 (External Theory 40+ Internal 10)**

MONTH	TOPIC	METHODOLOGY	RESOURCES	PERIODS
March	UNIT-I: Organization and Management a) School as an organization: Meaning, Objectives and Principles of school organization, Types of administration and management. b) School Plant: Meaning, Importance, Essential characteristics, Maintenance and Selection of site.	Lecture cum Discussion Method, Inductive Deductive Method	PPTs, E-content videos	3 2
April	Institutional Planning: Meaning, objectives, characteristics, and advantages of Institutional planning. a) School Time Table: Importance, Types and Principles of time table construction. b) Co-curricular Activities: Meaning, Importance, Principles of organizing co-curricular activities (Especially Morning Assembly, NSS, NCC, Field trips). ASSIGNMENT: Discipline: Concept, Need, Causes of indiscipline and Remedial measures.	Lecture cum Discussion Method, Project method Assignments	PPTs, E-content videos	4 4 4

April	UNIT-III: Quality Enhancement and Management in Schools (a) Leadership: Concept, Need & Development of Leadership Qualities. (b) Supervision : Meaning, Objectives and Principles, Role of Educational Administrators (at school level, Block, District, State level) (c) School Records and Registers: Need and Importance, Types, Characteristics and Maintenance.	Lecture cum Discussion Method,	PPTs, E-content videos	4 2 3 4 4
May	UNIT-IV: Recent Trends in School Management (a) Total Quality Management (TQM): Concept, Need and Importance, Characteristics and Principles. Development of human resource through TQM. (b) Biometric Attendance System: Concept, Significance and Challenges in Indian context. (c) Feedback of teachers and Administrators: Concept, Need and Importance, Role of reflective teaching.	Lecture cum Discussion Method, model based method {Hilda taba model}	PPTs, E-content videos	4 4 4

P-2.1 & P-2.2
TEACHING OF MATHEMATICS

*Max Marks: 50 Marks,
External Theory: 40 marks, Internal Practical: 10 Marks*

Month	Unit	Topic	PA	Mode of Teaching	Resource
March	I(a)	Unit planning- Meaning and Characteristics	2	Discussion followed by PPT	Own Prepared Notes(PDF/PPT)
	I(b)	Lesson Planning- Meaning, Need and Importance, steps for preparation and construction of lesson plans	4	Lecture cum Discussion on shared resources	Dr. SC Gakhar Dr. SK Mangal
	II(c)	Types of Lesson Plan: Diary format, ICT based, test based and model based lesson plans	4	Discussion method followed by Group Activity	Discussion Method followed by Student Activity to prepare sample Lesson
	II(a)	Identifying learner's strength and weaknesses	2	Discussion followed by PPT	Dr. SC Gakhar
	II(a)	Activities enriching mathematics learning – assisting learning	4	Discussion followed by PPT	NCERT Text Book for B.Ed Class
	IV(c)	i) Number System: Natural Number, Whole Number, Integers, Rational Number, Irrational Number and Operations with Numbers;	1	Seminar mode (Assigned work to 2 student)	NCERT Text Books (VI-X)
	IV(c)	ii) Polynomial.	1	Seminar mode (Assigned work to 1 student)	NCERT Text Books (VI-X)
	II(b)	Development of interest and attitudes towards mathematics	2	Brainstorming session	Dr. SC Gakhar

	II(c)	Cultivating learner's sensitivity like intuition, probing and developing confidence	3	Lecture cum discussion followed by Handouts	Self-Prepared notes shared on LMS
April	III(a)	Mathematics Club: importance and functioning at school level	2	Lecture cum Discussion	Shared handout on LMS
	III(a)	Mathematics Laboratory: importance and functioning at school level	2	Brainstorming	Own Prepared Notes(PDF/PPT) shared through LMS
	III(b)	Recreational activities—games, puzzles and riddles in mathematics	4	Discussion method followed Group activity	Dr. SK Mangal Self-Prepared notes
	IV(c)	iii) Equations: Linear, Simultaneous and Quadratic Equations and their solution	1	Seminar mode (Assigned work to 2 student)	NCERT Text Books (VI-X)
	IV(c)	iv) Geometrical Concepts: Point, Line, Line Segment, Ray, Angle, Triangle	1	Seminar mode (Assigned work to 2 student)	NCERT Text Books (VI-X)
	IV(c)	v) Types of Angles, Triangles and quadrilaterals;	1	Seminar mode (Assigned work to 2 student)	NCERT Text Books (VI-X)
	III(b)	Stimulating creativity and inventiveness in mathematics.	2	Discussion followed by Handouts	NCERT Text Book for B.Ed Class
	III(c)	Teaching Aids in mathematics: Concept, Characteristics and types	4	Lecture & discussion	Own Prepared Notes(PDF/PPT) and shared on LMS
May	IV(a)	Qualities of mathematics teacher: general, specific and professional	3	Brainstorming through group activity	Own Prepared Notes(PDF/PPT) and shared on LMS

	IV(c)	vi)Trigonometry: Introduction, Trigonometric ratios identity, height and distances;	1	Seminar mode (Assigned work to 2 student)	NCERT Text Books (VI-X)
	IV(c)	vii) Probability;	1	Seminar mode (Assigned work to 2 student)	NCERT Text Books (VI-X)
	IV(c)	viii) Sequence and series	1	Seminar mode (Assigned work to 2 student)	NCERT Text Books (VI-X)
	IV(b)	Professional development of mathematics teachers-participation in conferences, seminars, workshops, projects; Journals and other resource materials in mathematics education,	3	Lecture & discussion	Own Prepared Notes(PDF/PPT) on the basis of NCERT Textbook
	IV(b)	Role of reflections in professional development.	2	Discussion followed by handouts	Own Prepared Notes(PDF/PPT)
	IV(c)	ix) Mensuration	1	Seminar mode (Assigned work to 2 student)	NCERT Text Books (VI-X)
		Any two of the following: 1. Organize a Group puzzles activity and write a report on it. 2. Preparation and demonstration of teaching model 3. Organize and write a report on at least two mathematics club activities			

P-2.1 & P-2.2
PEDAGOGY OF SCIENCE

Total Marks: 50 External Theory: 40 Internal Practical: 10

Units -4

Unit Name: Unit-I: Planning for Effective Teaching (22 lectures)

March 2024-April 2024

Summary of Unit:) Lesson Planning- Concept, Importance,Types. Importance, planning and organizing co curricular activities – Science clubs, science museum, science fair, Excursions, Practical work in science.

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

- Plan lessons for effective teaching in science.
- Organize various co-curricular activities in science.
- Organize practical work and improvised science apparatus.
- Develop insight in learning beyond classrooms.

Resources: Teaching of Science books, PPTs and Pdf s of specimens of Lesson Plans of various Types.

Lesson 1 Title: a) Lesson Planning:Concept, Importance, Approaches (Herbartian approach and Constructivist approach), Types (Macro, Micro, ICT-based, Test-based, Models of Teaching based and Diary Lessons) and their limitations

Time -12 lectures

Lesson 2 Title b) Learning Beyond the classrooms- Importance, planning and organizing co-curricular activities – Science clubs, science museum, science fair, Excursions.

Time -5 lectures

Lesson 3 Title: Practical work in science- Need, importance and planning/organization.

Time -5 lectures

Assignment and Activities: Prepare one specimen of Macro, Micro, ICT-based, Test-based, Models of Teaching based and Diary Lesson taking any topic of your choice from class VI to IX (*Submissions*)

Evaluation: Macro Lesson Plans according to Herbartian Steps. (*Submissions*)

Unit Name: Unit-II: Learning Resources in Science (10 lectures)

April 2024-May 2024

Summary of Unit: Importance and evaluation criteria of Textbooks, Design of Science laboratory, Selection, purchase and maintenance of apparatus and equipment in laboratory, Development of science kits, improvising apparatus and low cost experiments/ demonstrations in Science

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

- Develop insight into various learning resources in science
- Comprehend the Need, Importance and evaluation criteria of a good Text book.
- Evaluate and recommend a good text book
- Design Ideal Laboratories for studying Science in Secondary schools.
- Prepare improvised and low cost apparatus and make best use of available resources.

Resources: Teaching of Science books, PPT of Whitehouse laboratory design, Science kits, Improvised apparatus, Pdf s of Evaluation Criteria.

Lesson 1 Title: a) Textbooks- Need, Importance and evaluation criteria

Time -3 lectures

Lesson 2 Title b) Designing laboratories - Need and Importance of laboratory for teachers and students, Design of Science laboratory.

Time -3 lectures

Lesson 3 Title: Selection, purchase and maintenance of apparatus and equipment in laboratory, First aid in laboratory, Development of science kits, improvising apparatus and low cost experiments/ demonstrations in Science

Time- 4 lectures

Assignment and Activities-Prepare 1 improvised apparatus that can be used in the teaching science (from class VI to IX).(*Sessional Submission*)

Evaluation: Diagrammatic description of Whitehouse laboratory.(*Submission*)

Evaluation of a Science textbook using Reviewer's Form(*Sessional Submission*)

Unit Name: Unit- III: Evaluation and Professional Development

(10 lectures)

April 2024

Summary of Unit:) Evaluation in Science- Concept, need, types and Process. Preparing blue print of a question paper, Peer and Student Evaluation, Professional Competencies and Programmes for Science Teacher.

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

- Comprehend and conceptualise evaluation and its types.
- Prepare a blue print of a question paper
- Understand the need, importance & relevance of teacher, peer and Student evaluation in Science.
- Professionally equip themselves and make themselves competent to compete with the global world.

Resources: Teaching of Science by VK Kohli , Blue print of a question paper, Professional Competencies and Programmes for Science Teacher

Lesson 1 Title: a) Evaluation in Science:Concept, need, types (Formative, Summative and Diagnostic) and Process. Preparing blue print of a question paper

Time-4 lectures

Lesson 2 Title b) Teacher Evaluation in Science:Concept, Need and Types (Peer and Student Evaluation).

Time -3 lectures

Lesson 3 Title:c) Professional Development: Need, Importance, Professional Competencies and Programmes for Science Teacher; Role of Teacher as a facilitator.

Time -3 lectures

Assignment and Activities-Prepare a Blue print of Question Paper of 75 marks.(*Sessional Submission*)

Evaluation: Professional Competencies and Programmes for Science Teacher(*Seminar*)

Unit Name: Unit-IV Content Area and Pedagogical Analysis (13 lectures)

May 2024

Summary of Unit: Content Area and Pedagogical Analysis of a Metals and Non-Metals, Environmental Problems, Force, Motion and Energy, Periodic Table.

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

- Analyze the content pedagogically

Resources: Syllabus and content matter of the given topics.

Lesson 1 Title: a Metals and Non-Metals –Physical and Chemical properties

Time-3 lectures

Lesson 2 Title b) Environmental Problems- Global warming, greenhouse effect, acid rain, ozone layer depletion.

Time -4 lectures

Lesson 3 Title c) Force, Motion and Energy: Concept, Types and Application

Time -3 lectures

Lesson 4 Title d) Periodic Table: Development, Significance and Trends across groups & periods of Periodic Table.

Time -3 lectures

**Evaluation: Content Area and Pedagogical Analysis of topics from Class VI to IX.
(Class seminars)**

Unit Name: Sessional Work (Internal)

Sessional Work (Internal)

- 1. Preparation of a blueprint and construction of test items for Achievement test in science.**
- 2. Construction of any one improvised apparatus**
- Or**
- 3. Critical evaluation of a science textbook.**

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

- Prepare a blue print of a question paper
- Prepare improvised and low cost apparatus and make best use of available resources
- Evaluate and recommend a good text book

Evaluation: Submissions within one month .

Time-1 month

References:

- Bhandula, N. (1989). Teaching of Science. Ludhiana: Parkash Brothers.
- Das , R.C. (1992). Science Teaching in School. New Delhi: Sterling Publishing.
- Kohli , V.K. (2006). How to Teach Science. Ambala: Vivek Pub.2006
- Mangal, S.K. (1997). Teaching of Science. New Delhi: Arya Book Depot
- Sharma, R.C. (2010). Modern Science Teaching. New Delhi: Dhanpat Rai Pub. Co.

Evaluation Scheme:

- The external theory examination will be of three hours duration.
- External question paper will have V units.
- First four units i.e. Unit-I, II, III, IV will have two questions each and the candidate will be required to attempt one question from each of the Unit-I to IV.
- Each question carries 8 marks.
- Unit –V will be compulsory with 4 short answer-type questions set from the whole syllabus of the paper. Each question will be of 2 marks.

P-2.1 & P-2.2

PEDAGOGY OF COMPUTER SCIENCE

Total Marks: 50 External Theory: 40 marks Internal Practical: 10 marks

Units -4

1 Lecture=50 mins

Unit Name: Unit-I: Basic Content (14 lectures)

March 2024

Summary of Unit:) Network of Computers, Internet – Meaning and its relevance in TLP, World Wide Web - browsing and search engines, E-mail

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

- To develop an understanding of the content in computer science
- To comprehend and conceptualize networking and its types
- To understand and apply the relevance of internet in TLP
- To create Emails, Blogs and make use of search engines and other browsing engine

Resources: Computer Science books,

Lesson 1 Title: a Network of Computers: Concept and its Types

Time -5 lectures

Lesson 2 Title b Internet – Meaning and its relevance in TLP

Time -3 lectures

Lesson 3 Title:c. WWW: World Wide Web - browsing and search engines

Time -3 lectures

Lesson 4 Title d: E-mail – Meaning, Creation & its importance

Time -3 lectures

Assignment and Activities: Create an Email account

Create a Blog and add an article of your choice on it.

(Internal Submission)

Evaluation: Networking and its types.***(Class Seminar Presentations)***

Unit Name: Unit-II: : Resources for Teaching Computer Science(10 lectures)

April 2024

Summary of Unit: Importance and evaluation criteria of Textbooks, Design of Computer Science laboratory,

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

- Develop insight into various learning resources in science
- Comprehend the Need, Importance and evaluation criteria of a good Text book.
- Evaluate and recommend a good text book
- Design Ideal Laboratories for Computer Science in Secondary schools.
- Prepare improvised and low cost apparatus and make best use of use of available resources

Resources: Teaching of Computer Science books, Laboratory designs, Improvised apparatus, Pdf s of Evaluation Criteria.

Lesson 1 Title: a) Text Books – Qualities of good computer science text book, Role of textbook in teaching

Time -3 lectures

Lesson 2 Title b) Computer science & Criteria for evaluation of computer science textbooks.

Time -3 lectures

Lesson 3 Title: Computer Science Lab – Need for planning the computer laboratory, special features of computer laboratory, Essential infrastructure.

Time- 4 lectures

Assignment and Activities-Prepare an ideal design for a computer science laboratory.

Evaluation: Essential infrastructure required for a good laboratory.(Class Seminars)

Unit Name: Unit- III: Curricular Activities (12 lectures)

May 2024

Summary of Unit:) Computer Science Club, Computer Science Quiz, Computer Science Exhibition, Science Fair, Professional Competencies of Computer Science Teacher.

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

- To develop the understanding of the various co-curricular activities in the teaching of computer science.
- Professionally equip themselves and make themselves competent to compete with the global world.

Resources: Teaching of Science by VK Kohli , Pedagogy of Computer Science (Kalyani Publishers)

Lesson 1 Title: a) Computer Science Club-Meaning, Objectives, Organization, activities & importance

Time-4 lectures

Lesson 2 Title b) Computer Science Quiz, Computer Science Exhibition, Science Fair, Objectives Organization & Importance.

Time -5 lectures

Lesson 3 Title:c) Quality & Professional Competencies of Computer Science Teacher

Time -3 lectures

Assignment and Activities- Organize computer quiz/seminar(*Sessional Work Submission*)

Evaluation: Professional Competencies and Programmes for Computer Science Teacher (*Class Seminars*)

Unit Name: Unit-IV : E-Learning and Evaluation in Computer Science (15 lectures)

June 2024

Summary of Unit: E-Learning , Measurement &Evaluation, E-Evaluation and importance and role of computer in evaluation, Preparation of Blue Print.

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

- Understand E learning and its importance.
- Differentiate between Measurement &Evaluation.
- Comprehend and conceptualize evaluation and its types
- Prepare a blue print of a question paper

Resources: PPTs &Pdf s of the given topics, Pedagogy of Computer Science by Kalyani Publishers.

Lesson 1 Title: E-Learning: -Concept, Meaning, Characteristics and Types:

i) Off-line Learning (Meaning, Importance)

ii) On-line Learning-(Synchronous and Asynchronous)

Time-5 lectures

Lesson 2 Title b) Difference between Measurement and Evaluation, Concept of Evaluation and its Importance

Time -4 lectures

Lesson 3 Title c) E-Evaluation: Concept, importance and role of computer in evaluation.

Time -3 lecture

Lesson 4 Title d)Blue print of Question Paper in Computer Science

Time -3 lectures

Assignment and Activities-Prepare a Blue print of Question Paper of 70 marks(*Sessional Submission*)

Evaluation: E-Learning , E-Evaluation and importance and role of computer in evaluation.
(Class seminars)

Unit Name: Sessional Work (Internal)**Sessional Work (Internal)Any TWO**

- i. Create a Blog
- ii. Lesson plan using computer
- iii. Organize computer quiz/seminar

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

- Prepare a lesson plan on any topic of computer science of class 6 to 12
- Create a blog
- Organize computer quiz/seminar

Evaluation: Submissions within one month .

Time-1 month

References:

- Beri, P(2019).Pedagogy of Computer Science,Kalyani Publishers
- Kohli , V.K. (2006). How to Teach Science. Ambala: Vivek Pub.2006

Evaluation Scheme:

- The external theory examination will be of three hours duration.
- External question paper will have V units.
- First four units i.e. Unit-I, II, III, IV will have two questions each and the candidate will be required to attempt one question from each of the Unit-I to IV.
- Each question carries 8 marks.
- Unit –V will be compulsory with 4 short answer-type questions set from the whole syllabus of the paper. Each question will be of 2 marks.

P-2.1 & P-2.2**PEDAGOGY OF ECONOMICS****Total Marks: 50 External Theory: 40 Internal Practical: 10**

Topic	Mode	Time/ Period	Resources	Month
Bloom's revised taxonomy of writing behavioral objectives in context of Economics lesson Planning	Discussion method	3	Self prepared Power point presentation Discussion Method followed by Student Activity to frame Objectives	March
Concept, Need and importance of a lesson plan	Lecture cum Discussion Session	3	Self PreparedPowerpoint Presentation	
Approaches of lesson plan: Herbartian lesson plan, RCEM approach and Constructivist approach	Brainstorming Session followed by Lecture cum Discussion on shared resources	4	Notes + Creative common videos	
Planning for teaching Economics – Annual plan, Unit plan, Daily Lesson plan and Short/Diary Lesson plan.	Discussion method followed by Group Activity of students	4	Discussion Method followed by Student Activity to frame sample Lesson	
Importance and classification of teaching learning material with special reference to Edgar Dale's Cone of Experiences	Discussion Method	2	Self PreparedPowerpoint Presentation + Notes	April
Charts, Graphs, Models – Working & Still, Specimens & Objects, Multimedia in Economics teaching	Demonstration method	4	Activity Based	
Learning Resource : Primary and Secondary	Lecture cum Discussion Session	3	Self PreparedPowerpoint Presentation + Notes	
Concept, importance and tools of Evaluation	Brainstorming session followed by Discussion	3	Self PreparedPowerpoint Presentation	May
Peer assessment; use of Rubrics and Portfolio in assessment of Economics	Subject Seminar from the experts	4	Compilation of key points of the session	
Open-book tests: Strengths and limitations.	Group Discussion followed by assignment	2	Resource Person + Key Points of Discussion	
a) Globalization and Indian Economy b) Consumer Rights c) Food security in India	Cooperative learning	6	Assignment	
Debate on the state of Indian economy.	Discussion	5	Annual Budget Report	

P-2.1 & P-2.2
PEDAGOGY OF ENGLISH

Total Marks: 50 External Theory: 40 Internal Practical: 10

UNIT-1: Teaching Skills

S.No.	Topics	Mode/ Resources	Month	Tentative lectures
(a)	Poetry- Objectives, methods and steps of teaching poetry.	Lecture, flipped classroom teaching, Discussion / pdf notes & Power point Presentation	March	4
(b)	Prose- Objectives, methods and steps of teaching prose.	Lecture cum discussion/ Book by K.K Bhatia and Dr. S.S Wadhwa	March	4
(c)	Grammar- Objectives, types, methods(Inductive and Deductive methods), importance and steps of teaching Grammar.	Subject Seminar, PPT, Discussion/Book by K.K Bhatia and Notes in pdf form	March	5

UNIT-2: Lesson Planning and Language teacher

(a)	Lesson Planning- Meaning, types, objectives and importance.	Lecture cum demonstration/ PPT and book by K.K Bhatia and Dr. S.S Wadhwa	March	7
(b)	Writing Lesson Plan- Poem, Story, Essay, Grammar, Prose	Lecture cum demonstration , notes in pdf	April	9
(c)	Language Teacher- Qualities, Present status of English teacher and suggestions for improvement.	Lecture/Classroom Presentation by students)	April	3

UNIT-3: Audio-Visual Aids and Evaluation

(a)	Audio-Visual Aids (Types, Importance, Uses), Language laboratory (It's set up and uses)	Lecture cum demonstration, Field visit, notes in the form of pdf	April	6
(b)	Types of Examination- Oral and written (objective type, short answer type and essay type). Principles of good question paper, defects in present examination system and suggestions for improvement)	Lecture/Discussion, notes in the form of pdf	April	6

(c)	Evaluation of language skills- Concept, difference between test and examination, continuous and comprehensive evaluation, Evaluation techniques.	Subject seminar on CCE, Power point Presentation	May	5
UNIT-4:Grammar				
(a)	Composition- paragraph writing, Letter writing, Notice writing, dialogue writing	Videos , Written Practice sessions	May	6
(b)	Idioms, proverbs	Practice Sessions, Notes pdf, Wren and Martin Grammar book.	May	3
(c)	Reported Speech, Voice	Inductive-Deductive written Practice session	May	5

P-2.1 & P-2.2
PEDAGOGY OF SOCIAL STUDIES

TOTAL MARKS: 50 External Theory 40 Internal Practical 10

Month	Unit	Topic	Method	Time Allotted	Resources
March& April	UNIT- I: Pedagogic planning	Concept, Need and importance of a lesson plan and its approaches (Herbartian Approach, RCEM approach and Constructivist approach)	Lecture cum discussion Demonstration, Hands on	10 lectures	Teaching of Social studies by Dr. J.S.Walia Teaching of Social studies by Anurag Sankhia Teaching of Social studies by Gagandeep and Deepshikha Online sources
		Planning for teaching of Social Studies - Annual plan, Unit plan, Lesson plan and Short/Diary Lesson plan.	Lecture cum demonstration Hands on	8 lectures	The teaching of Social Studies by SK Kochar The teaching of Social Studies by BK Sahu
		Writing ICT based, Model based, and Test based lesson plan.	Lecture cum discussion Hands on	8 lectures	Educational Technology by S.K. Mangal Teaching of Social studies by Dr. J.S.Walia Self developed content The teaching of Social Studies by BK Sahu
April	UNIT- II: Teacher, Text book, laboratory	Social Studies Teacher- Qualities and qualification, and Role. Professional development- Concept, need and ways, Role of ICSSR and NCERT	Lecture cum discussion	8 lectures	Teaching of Social studies by Dr. J.S.Walia Teaching of Social studies by Anurag Sankhia Teaching of Social studies by Gagandeep and Deepshikha Online sources
May		Social Studies Text Book- Meaning, Features (of good text book), and Importance (For teacher and students	Lecture cum demonstration	2 Lectures	Teaching of Social studies by Dr. J.S.Walia The teaching of Social Studies by BK Sahu
		Social Studies Room: Need and Importance, Equipments required, and management of the room	Lecture cum demonstration	2 Lectures	Teaching of Social studies by Dr. J.S.Walia The teaching of Social Studies by BK Sahu Teaching of Social studies in elementary schools by Wesley Cartwright
	UNIT -III	Peer assessment, use of Rubrics and Portfolio in	Lecture cum discussion	10 lectures	Teaching of Social studies by Dr. J.S.Walia

	Assessment and Evaluation in Social Studies Education	assessment of Social Studies			Teaching of Social studies by Anurag Sankhia Teaching of Social studies by Gagandeep and Deepshikha. A Text Book of Curriculum, Pedagogy and Evaluation by Dr. SK Bhatia & Dr. Sonia Jindal Online sources Self developed class notes
		Open-book tests- Strengths and limitations, Techniques of evaluating student's answer books/Assessing project work. Construction of achievement test	Lecture discussion Project	8 lectures	Teaching of Social studies by Anurag Sankhia Teaching of Social studies by Gagandeep and Deepshikha Online sources Research and Statistics by BK Sahu Self developed class notes
	UNIT IV: Content from NCERT books	Constitutional Design, Agriculture and National Economy, Globalisation and Indian Economy, consumer rights	Class seminars	10 lectures	NCERT text books
	Sessional work	Observation of recorded ICT based lesson of social studies prepared by student teacher Prepare an Open Book Test	Assignment, project	6 lectures	Teaching of Social studies by Anurag Sankhia Teaching of Social studies by Gagandeep and Deepshikha A Text Book of Curriculum, Pedagogy and Evaluation by Dr. SK Bhatia & Dr. Sonia Jindal Online sources

PEDAGOGY OF COMMERCE
TOTAL MARKS: 50 External Theory 40 Internal Practical 10

MONTH	TOPIC	METHODOLOGY	RESOURCES	PERIODS
March	Unit I: Pedagogic planning Blooms revised taxonomy of writing behavioral objectives in context of Economics lesson Planning Concept, Need and importance of a lesson plan, Approaches of lesson plan: Herbartian lesson plan, RCEM approach and Constructivist approach	Lecture cum Discussion Method, Inductive Deductive Method	PPTs, E-content videos	3 2
April	Planning for teaching Economics – Annual plan, Unit plan, Daily Lesson plan and Short/Diary Lesson plan. Teaching Learning Material Importance and classification of teaching learning material with special reference to Edgar Dale's Cone of Experiences Charts, Graphs, Models – Working & Still, Specimens & Objects, Multimedia in Economics teaching ASSIGNMENT: Open-book tests: Strengths and limitations	Lecture cum Discussion Method, Project method Assignments	PPTs, E-content videos	4 4 4
May	Unit – III: Assessment and Evaluation (a) Concept, importance and tools of Evaluation (b) Peer assessment; use of Rubrics and Portfolio in assessment of Economics. Content from NCERT Text books Globalization and Indian Economy	Lecture cum Discussion Method,	PPTs, E-content videos	4 2 3 4 4
May	(a) Consumer Rights Food security in India	Lecture cum Discussion Method, model based method {Hilda taba model}	PPTs, E-content videos	4 4 4

