AUDIO VISUAL EDUCATION

Module I Introduction to Instructional Design

Unit 4 Learning and communication

Unit 5 Learning and Visual Aids

Instructional Objectives:

- 1. List the seven components of Berlo's model of communication.
- 2. Explain how you determine whether learning has taken place.
- \mathfrak{Z}_{ullet} Differentiate between stimuli and response and classify them.
- 4. State the two categories of learning theories.
- 5. List the kinds of learning domains categorised by Bloom.
- 6. List three human behaviours under each of the following eognitive domain, affective domain, and psychomotor domain.
- Discriminate different levels of activity under
 - a) Cognitive domain
 - b) Affective domain
 - c) Psychomotor domain
- 8. Compare and relate the three major modes of learning (enactive, iconic & symbolic) With the three kinds of experiences (direct, pictorial and abstract).
- 9. Write in order the eleven divisions of the Dales Come of Experience and classify learning experiences, with Bruner's three modes of learning.
- 10. List the five senses through which we learn.

A COURSE ON AUDIO VISUAL INSTRUCTION

MODULE 1: INTRODUCTION TO INSTRUCTIONAL DESIGN

UNIT IV: LEARNING THEORY & COMMUNICATION

A PROGRAMMED TEXT

INSTRUCTION TO INSTRUCTIONAL DESIGN

Learning Theory and Communication.

Module - I

Unit - 4

For units 4 & 5 of Module I: We are adopting a different approach for preparation of our stimulus to you. The visual presentation and audio communication through the tape is stopped for the time being. This format which we have prepared for you for this unit, is known as programmed text. Though the previous three units, were also programmed, the strategy adopted was different, as you have noticed. You are going to experience the difference, when you have completed this unit.

Instruction, in this unit, is provided in small paragraphs, each one called a frame. At the end of most of the frames, you will be asked to provide responses to the stimuli presented there or earlier. This may be a straight answer to a question, filling up of gaps, finding missing word(s), tick correct answers, or matching two columns containing related information. Answer each and every question, either in the space provided below each frame, or in seperate sheets of paper. The correct answers are given in the confirmation booklet, provided at the end of the programme. In some of the programmes made earlier this was given below or aside each frame, and you may exchange them with new copies, if you have received old copies. You are advised, not to look at the answers given in the confirmation booklet, before answering to the questions in each frame yourself. The reference numbers given in the confirmation booklet, coincides with the corresponding numbers in the programmed text, frame by frame.

- 1. We have covered a number of topics so far. Systems approach to Instructional design, Basic Concepts on Instructional Technology, Media and Audio Visual Aids. You have been told about fundamentals of instructional design, meaning of visual aids and the difference between audio visual aids and media. We will now proceed with learning theory and communication. Perception is the process whereby an individual becomes aware of the world around him. We perceive through our i.e. eyes, ears, fingers, nose and tongue: (seeing, hearing, touching, smelling and tasting)
- 2. Perception leads to communication. In all communication. there is a general pattern. Refer to the Berlo's model of communication given, at panel sheet No.1 at the end of this This is a modification of the communication model of Shannon and Weaver. The information or message has a source. the sender at the source encodes the message (Brain). It is converted into transmittable form (words, sound waves) and passes through a channel (Air, wire, paper, light) and message is received (through his senses, eyes, ears etc.) and decoded at the destination (by the nervous system). The five components considered so far are source, ancoder, channel, deco der, destination. To be objective, all components must work. The receiver must be active. The sender must have a return response from the receiver. It is termed feed back. Now mark the feed back arrow on the panel. Feed back is the sixth component of this model.

3.	must get	
		nago kinding kandanak playaya, da nagonaka ^k aling mina pakalani ana kanda ana kanda ka
4.	failure of communication dep also. Any distraction can be information can also be deem on the part of the receiver communication. Hence for ef	be disturbed by noise. Success or ends on the transmission channel e noise. Ambiguous or misleading ed to be noise. Lack of attention can also upset satisfactory fective communication sender and must avoid
5.	To overcome effect of anticip	ided in the transmission of message. pated noise, redundancy is often ion of transmission of

6.	Repetition of transmission of message is possibly to overcome
	the distraction of noise. Some examples of redundancy are
-	explaining an activity or performance showing visual distri-
	bution of hand-outs after a lecture, using a different mode
	for the same topic again, and providing multiple applications
	of a principle in different contexts. This factor of
	is often used to overcome the effect of evident or anticipated
	noise. Redundancy refers to repeated transmission of the
	same
٠.	
7.	The process of learning is an individual experience for each
	person. It modifies his behaviour in terms of knowledge, skill
	and attitudes. Learning takes place wherever an individual's
	behaviour isi.e. when he thinks or acts
	differently - when he has acquired new or a new
	. A major purpose for preparing audio visual
	aids is to help effect changes in behaviours that serve instruc-
	tional It is, therefore, necessary to
	relate planning effective audio visual aids to psychology of
	learning, and objectives.
8.	Learning theories fall into two major categories. One is
	behaviourist or connectionist group. This group interprets
,	man's behaviour as connections between and
	response.

9.	This pattern is known as stimuls-response (SR) pattern and is an exact response to a specific sensation or stimulus. Some stimuli are more effective than others. Spoken or written words, pictures, and all audio visual materials are examples of
10.	Most instruction is of stimulus response type. This concept was used by B.F. Skinner in his 'Programmed instruction' approach. The emphasis here is on the learner and his responses In programmed instruction (P.I.) each sequence of learning is broken into small steps, requiring an appropriate response to each item followed by immediate knowledge of results. If response is correct, the knowledge is a re-inforcement, a rewarding recognition of each correct response. The given helps the learner.
11.	The second group of theories is known as Gestalt or Cognitive theories. These theories assume that cognitive processes—insight, intelligence and organisational abilities—are the fundamental characteristics of human behaviour. Concern is more on how of learning rather than for what. The second group of theories assumes that and are the fundamental characteristics of human behaviour.

	clearer, the nearer, the more realistic and relevant, the
	statement of desired outcome; the more effective will be
	the learning. The learner must know, what is expected of
	him. It is necessary to specify first
	of learning for effective learning.
	Old learning does not automatically transfer to new learning.
	Students need guided practice in learning to reconstruct
	habitual ways of doing things. New experience and attitudes
	favourable to learning helps Transfer of
	skills is very important factor to you.
	Learning is increased by knowledge of results. Feedback to
.4•	students about good performance, mistakes and knowledge of
	successful results aid
15.	The relevant statement of desired outcomes must be communicate
	to the learner in the beginning clearly to enable him know hit target. Benjamin Bloom has standardised terminology used to
	appraise kinds of learning. He has classified learning in
	three areas or domains - COGNITIVE, AFFECTIVE and PSYCHOMOTO
	three areas or domains - <u>COGNITIVE</u> , <u>AFFECTIVE</u> and <u>PSYCHOMOTOR</u> The three major areas of learning classified by Bloom, known

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	COLUMN - I.				9	OLUMN	<u>- II</u>	
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18.	These le	evels serve in plannir	ng and	d developing audio visual aids.
	The obje	ectives to be served i	form t	the basis, for organising the
	aids.	The affective domain i	is the	e difficult area to be served
	by audio	visual aids. Therefo	ore, i	t is necessary to plan this
	area car	efully. This domain	inclu	ides the following five levels
	of attit	udes, interests and i	invol	rements.
	1.	Receiving	5 9	attracting learners' attention
	2.	Responding	:	learner willing to reply or take action
	3.	Velui ng	\$	committing onecalf to an attitudinal position
	4.	Organisation	:	making adjustments
	5.	Characterisation of a value complex	•	Integrating one's ideas, beliefs and attitudes into a total philosophy.
	The five	e levels of affective	doma	in include:
	1) Recei	•	2)	
		• • • • • • • • • • • • • •	4)	• • • • • • • • • • • • • • • • • • • •
	5)			
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19.	In the I	Psychomotor domain, th	ne act	civities can be grouped as
	follows	; 		
•	1. 0	cross bodily movements	3 -	arms, shoulders, feet and legs
		Finely coordinated novements	¢ co	hand and fingers, hand and eyes hand and ears, hand, eye and foot, all.
	3. I	Non-verbal communicati	ion -	facial expression, gestures, bodily movements.
	4. 8	Speech behaviours	•	production of sound, sound gesture coordination.
	These se	erve the areas of skil	ll tra	aining with shich you are
	concorne	ed. The four levels	of act	tivities in the psychomotor
	domain d	could be:		
	1)		2)
	3)	• • • • • • • • • • • • • • • • • • • •	. 4)
			-tuninghar are a createring	

20.	Dave, an Indian Professor has classified the Psychomotor Domain and his classification has been accepted all over the world. According to Dave, the levels of activities under motor skills are IMITATION, MANIPULATION, PRECISION, ARTICULATION AND NATURALISATION. The first three are simple and clear. Articulation emphasises a series of acts in terms of time and speed. The last one refers to the highest proficiency, achieved after you have passed through the other four stages.
21.	While designing audio visual aids, to fit into the instruction,
	it is essential for one to keep in mind the statement of
	objectives and categorise them in different areas under each
	domain - human behaviour - as our intention is to change the

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	According to Jerome S.Bruner, three kinds of experiences have been found to have a place in the process of communication. These three modes are <u>direct experiences</u> (called enactive), <u>pictoral experiences</u>
-	According to Mr. Bruner the Process of Communication require three
	forms of experiences. They are 1.
•	2
23.	At the first level i.e. direct experience, the student actually does work - enactive learns by doing, at the second level -
	pictoral: iconic - he looks at a picture and learns how to do a
	job that he has never done before and at the third level - highly
	abstract experiences: Symbolic level - the student hears or reads
	about how to do a job and matches words to his mental image of
	the job and does the job. Thus the three experiences classified
	by Bloom are: 1. Enactive 2.
	3.

24.	Often we learn from concrete experiences to abstractness.
	Difficulties arise when abstractness have inadequate foundations.
	If a learner has too little enactive or iconic experience in
	acquiring an idea, a word or a formula will probably have no
	real meaning for him. If a symbol is to stand for something,
	it must stand on something i.e. a firm foundation. Without
	proper foundation you can not construct a building. Thus when
	we arrange learning experiences we must go to abstraction from
	experiences.

25. Dale's cone of experience illustrates these important ideas by indicating direct experiences (enactive) at the base and verbal symbols (symbolic) at the apex. Refer to panel sheet No. 2 at the end of this unit for the cone. This cone is a model representing a range of experiences from first-hand action - direct purposeful experiences i.e. enaction - to observation - pictures i.e. iconic - on to symbolic communication. This may start with your recognising salt by taste to recognizing it by hearing the word. Or an apple recognised by hearing the word, or by seeing or by tasting. Over one's life time this understanding moves through different levels. Let us now go ahead with the Dale Cone.

NO RESPONSE REQUIRED, STUDY PANEL TWO CAREFULLY.

26. The base of the cone represents concrete, direct first hand experiences that make up the foundation for our learning.

Through seeing, hearing, tasting, feeling and smelling, we build our wealth of meaningful ideas and information.

() The state of t

26.Contd.

Our experiences, when they are of educational or training value, lead us purposefully to a goal, an objective. Without actually seeing or working with an engine or turbine, we develop out of words, concepts. This experience causes learning. There are millions in our country who have not seen sea or mountains or an elephant, yet they relate the words, to something they imagine from abstraction. The foundation for any learning according to Dale's cone is

27. Consider a steel plant. The huge towers, noise and vastness are too much for the eyes, ears and the mind to take everything at the same time. But a simplified model of the steel plant showing few things may be easy to understand. The student can trace the key points of the structure and note the points at which critical manufacturing operations occur. When we construe an experience we deal with a representation that differs from the original reality in size, complexity or both.

NO RESPONSE REQUIRED. GO AHEAD

28. We simplify experience by a representative model to make real life accessible to students' perceptions and understanding. Through the use of mock-up, we can contrive an event that may or may not have occured. Such a device is often referred to as a simulator. Simulator reproduce under test conditions in a workshop or laboratory, phenomena likely to occur in actual performance. When students engaged in contrived experiences, they can take part in actions that they have never dealt with before. In your own area, you may be able to consider arrangement of ______ with a choice between an original

object that may be difficult to grasp and providing a version that is easier to understand. Contrived experiences enable us to overcome our limitations in space dimensions i.e. physical objects. We are also limited in the discussion of time and thought or ideas. We cannot have direct, purposeful experience of something before we were born and cannot feel or hear certain ideas that are too abstract or symbolic to be conveyed by a contrived experience. Refer to same panel for the third experience on the cone. Dramatic participation can help us, experience certain ideas or events. Creative power of students can be meaningfully involved, by students participating directly in an indirect representation. A dramatisation can leave unnecessary and unimportant elements to sharpen and stress significant ideas. We can arrange this to suit exactly our stated objectives. Sometimes, a direct participation in a dramatisation results in more efficient learning than the first hand experiences they stand for. Thus, the first three experiences from the base in Dale's Cone are 1) 2) The first three experiences forming component of direct experience under the category Here you learn by doing. Refer to panel sheet 2 again at the end of this unit. The next six divisions according to Edgar Dale falls in cateogy viz, ICONIC and here you learn by seeing some pictures and learn at the third level you learn by hearing (reading) and through		
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33.	Refer to panel sheet 2. Study or field trips. The interdepen-	
	dance of different learning experience have already been explain	eā.
	It is not always necessary for students to carry out all the	
	actions they observe. Observation can lead to imaginative invol	ve-
	ment, though students have no direct control over them. Study	
	trips to television studios of students combined with interview	
	and discussions brings added meaning Study trips may bring directioned due to combined activities, but they are undertaken	et:
	primarily to observe events that are not in a	
	class-room.	

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34.	Exhibits consist of models or working models arranged in meaning	ful
	display. It may be number of photographs alone or arranged along	3
	with models, charts and posters. All these are for observation.	
	Usually spectators do not manipulate exhibits. You are not allo	wed
	to touch the exhibits. By seeing an exhinition you gain enrichm	ent.
	Experience gained can be blended with 'doing'. So far, under ic	onic
	experiences we have covered (1)(2)	
	and (3) exhibits.	,
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35. The fourth and fifth in the series of iconic experiences, as per the Dales Cone shown at panel 2 are <u>Television</u> and <u>motion pictures</u>. Both television and motion pictures are viewing experience combined with learning, mostly involving movement or motion. Though they are not directly involved with other senses - touching, tasting, handling, they are watching an event, about which they can later become involved in an imaginative way. Both use a planned order. Normally we do anything from start to end. The order can be

5. Contd.

changed and adopted in both TV & Film to give the desired experience (flash back). Between the two TV can supply a dimension of immediacy. Real live telecasts bring reality into class-room. It is possible to bring in more reality and comprehension than in actual presence at the place of occurence, as we can magnify and show what we really want to give. Live TV's outcome is uncertain (because you are not sure of what is going to be shown) compared to Film and hence this gives an unique experience. In the film preview notes and guides are available. The five divisions of iconic experiences and three divisions of enactive experiences according to Dales Come of Experiences are:

ICONIC 7)
6) MOTION PICUTRES
7)
6)
4)
Enactive 5)
2)
1) Direct Direction experiences.

36. Refer to panel sheet 2, at the end of the work-book for the next division under iconic experiences of the Dales Cone. Still picutres, Recordings, and Radio. This has one advantage. Even if you can't read, it can convey intended message. The auditory devices are suitable for both groups and individuals in the class, whereas photographs unless they are large cannot suit a whole class. We use film strip projectors O.H. projectors, record players, tape recordings and for larger groups public address systems. These give a lesser direct experience than the earlier ones. All still pictures lack motion and soun. Photographs cannot

36. Contd.

at times avoid irrelevent communication and too many ideas, unless specially adapted by better means. But our imaginative participation is broadened as we go up the cone. We should be careful not to overuse the media or use it for wrong objectives or where single explanations will do and easy direct participations can be arranged. It is possible to make series of photographs with captions or explanatory messages, which will enlarge the scope of their use. In actual practice, unless you are sure you have established your objectives for the specific audience, and organised your contents to fit the above, we cannot either select or make audio visual aids or give other required experiences.

NO R	SPONSE	REQUIRED.	GO	TO	NEXT	FRAME
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	The last group of the experiences shown by Dale in his cone is for
	learning through abstractions or symbolic experiences, which
	definitely is of a higher order. This will be the kind of experience
	where very little immediate physical action is required. Thus, in
	learning to deal with symbols, we increase the degree of the imagi-
	native involvement and depend on our capacity to become creatively involved and our understanding. The three categories of experiences
	viz, enactive, iconic and symbolic stand for a)
٠	b)c)

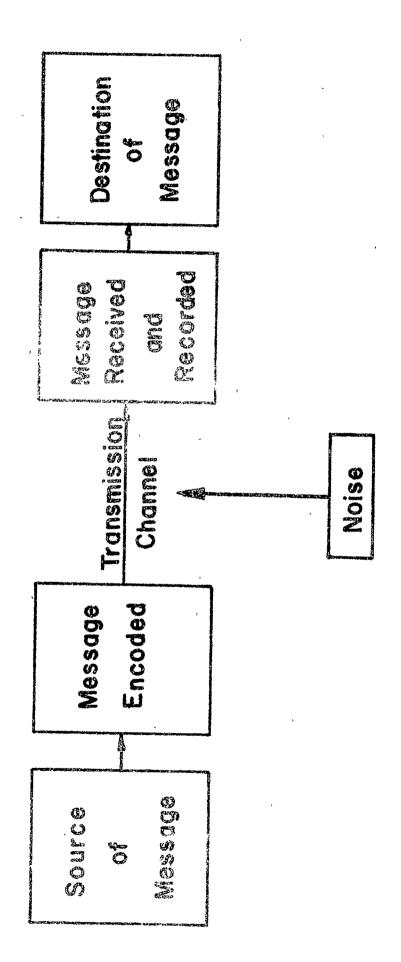
(ELECTION)

^{38.} The first division under symbolic experience according to Dales Cone is visual symbols and second division verbal symbols. Refer to panel sheet No. 2. Here in visual symbols one important espect to be remembered is that visual symbols must represent concrete experience unlike iconic, i.e. it does represent something what directly reminds him of something he has experienced

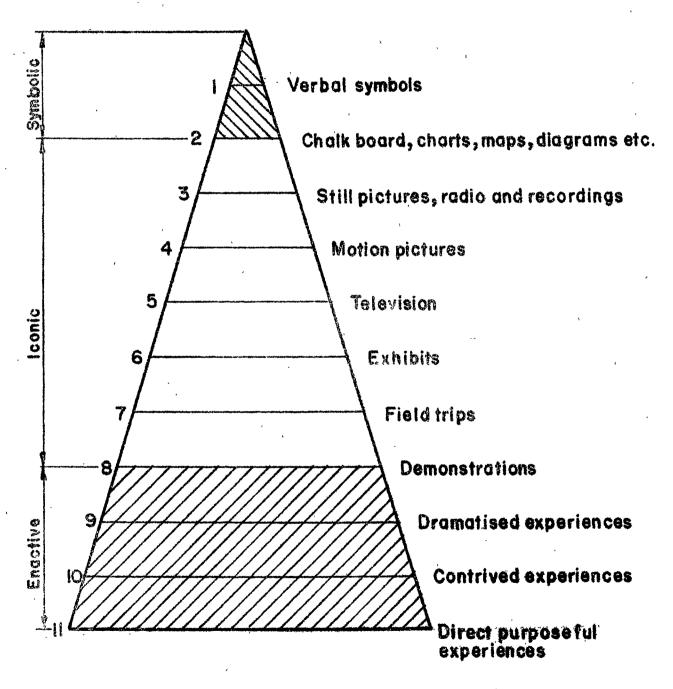
38.	Contd.
	before. Once students understand, they see an idea, an event,
	a process. Charts, maps, graphs, posters when properly prepared
	can manage a great deal of conceptualised experience through the
	abstract language of visual symbols. Visual symbols are
	that compress rich meaning,
	Annual An
39.	Verbal symbols, the apex of the cone, do not look like objects
226	or ideas for which they stand. They neither contain any visual
	• • • • • • • • • • • • • • • • • • • •
	cues. The word audio does not look like any word or aural message
	you hear, or the word lathe does not look like a lathe, unless
	this conveys you the meaning from your prior experience. Usually
	you agree for the meaning of a term if you already know what it
	stands for, if not, there are difficulties. Experts feel that
	spoken words are nearer to concrete than written words. Therefore
	spoken words will be on the cone than
	written words. However our teachers are gifted with the experience
	of providing concrete experiences with spoken words and speaking
	is an essential procedure in dealing with written verbal symbols.
40.	But we do not always start with direct experiences in our teaching.
	we begin with the kind of experience that is appropriate to the
	needs and abilities of particular learners in particular learning
	situations. Then we may give a variety of learning experience to
	give meaningful concept. Rootless experiences have no power and
	will not enable the learner to deal with new situations. We design
	our learning strategy based on the and
	of learners.

41. In case you are unable to answer all the questions, you are advised to take unit 5 before answering the unit test. You will have to take the post test for Module I after you complete unit test and before you take the next Module.

GOOD LUCK



DALES CONE OF EXPERIENCE



1 2 - Highly abstract experiences

3 to 8 - Pictorial experiences

9toll - Direct experiences

Confirmation Booklet

Introduction to Instructional Design

	Unit 4 Learning and communication.
1.	Senses
2.	Arrow from destination to source
3.	Feedback
4.	Noise
5.	Message: 1. source 2. encoder 3. channel 4. decoder 5. destination 6. feedback and 7. noise
6.	Redudancy, message
7.	Modified, knowledge - skill - objectives
8.	Stimulus
9.	Stimuli
10,	reinforcements
11,	cognitive processes
12	desired outcomes
13,	Transfer
14	Learning
15.	Cognitive, affective, psychomotor
16	C-1, A-2, B-3.
17,	 Knowledge 2. Comprehension 3. application analysis 5. synthesis and 6. evaluation

Module I

18.	responding, valuing, organisation and characterisation
19.	Gross bodily movements; finely co-ordinated movements; non-verbal communications and speech behaviours.
20.	NO RESPONSE REQUIRED. GO AHEAD.
21.	Human behaviour
22.	direct experiences, pictorial experiences, highly abstract experiences.
23.	enactive, iconic and symbolic
24.	Concrete
25.	NO RESPONSE REQUIRED. SEE PANEL 2 CAREFULLY.
26.	direct purposeful experiences.
27.	NO RESPONSE REQUIRED. GO ÀHEAD.
28	contrived experiences.
29.	1. Direct purposeful experiences 2. contrived experiences and 3. Dramatic experiences.
30.	enactive, iconic
31.	imaginativo
32.	observing, doing.
33.	available
34.	demonstration, study trips
35.	Television, exhibits, study trips, dramatic experiences and contrived experiences.
36	NO RESPONSE REQUIRED. GO TO NEXT FRAME
37.	a) Learning by doing b) learning by observation and c) observation and learning through abstractions.

	۔ ۔ و کیے کہا جب میں میں جب کی سے میں جب میں میں ہیں کے اس میں میں بیان کے اس میں میں بہت کی ہیں ہیں جب میں میں ہیں کہا ہیں میں میں جب اور اس میں میں ہیں ہیں ہیں ہیں ہیں ہیں ہیں ہیں ہیں ہ
38.	abstractions
_	lower
40.	needs and abilities
	Good luck

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