

Use of Audio and Video Materials at NIOS

Today the electronic media plays a vital role in Open and Distance learning system. It may not be wrong to say that distance teaching is a multi-media process. The use of electronic and communication technologies such as Television, Radio, Audio and Video cassettes, C.Ds, computer and satellite etc., has made the teaching and learning more efficient, interesting and effective. The Audio and Video programmes are considered as effective medium than the other electronic media because the learners have full control over their pace and place of learning. Keeping in view the significance of audio and video programmes in open and distance learning, the Media Unit of National Institute of Open Schooling (NIOS) has developed and produced several audio and video programmes to supplement the printed self-learning materials. Most of these programmes are produced in English and Hindi versions by using documentary, drama, docu-drama and other interesting formats. These programmes attempt to present the topic, theme and concept in a very simple and interesting manner so that the learners could get a clear understanding and insight of the subject.

The audio programmes of NIOS are developed in an integrated manner with the printed materials in the language subject so that optimum learning could be achieved. In order to make concepts more clear in some other subjects, the audio programmes proved to be more useful and made learning interactive. In the subjects like science, the video programmes combining with printed text are presented in the form of illustrations and diagrams supported by commentary. In brief, taking into account the potential of audio and video programmes in teaching-learning at a distance, these programmes have become an important component of course materials developed by NIOS.

Telecast and Broadcast Schedule

- **Video programmes:** Telecast on DD-I from 05.02 a.m. to 05.25 a.m. on every Friday and on Educational Channel – Gyan Darshan every day from 6.30 p.m. to 7.00 p.m.
- **Audio programmes:** Broadcast on GyanVani-FM channel every day from 8:30 a.m. to 9:00 a.m. and repeat broadcast from 4:30 p.m. to 5:00 p.m.

The audio and video cassettes and C.Ds. are made available to the learners through the Accredited Institutes (AIs and AVIs) of NIOS all over the country. The co-ordinators of such AIs and AVIs are expected to make adequate arrangements to listen to the audio or to view the video programmes during the Personal Contact Programmes.

Audio Programmes

AUDIO PROGRAMMES AT OPEN BASIC EDUCATION (OBE) LEVEL Hindi

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
1	Suno Kahani Sunao Kahani		11.24	–	Listening
2	Sahi Dhang Se Sahi Bolna		8.40	–	Speaking
3	Sune Dhyan Se Kare Dhyan Se		4.45	–	Following instructions
4	Jane Bujhain Kare Sawal		6.10	–	Raising question
5	Kaise Kare Sawal		8.20	–	-do-
6	Kya Kathan Kya Varnan		7.35	–	Story telling
7	Mira Ki Chuppi		7.15	–	
8	Zara Likh Lijiye		6.02	–	Writing skills
9	Chiriya	1	7.05	–	Poetry
10	Kamyabi Ka Tabeez	2	6.24	–	Story
11	Gulmohar Ka Janam Din	4	2.53	–	Talk on telephone
12	Kuch Kaam Karo	5	2.08	–	Poetry
13	Char Mitra	6	2.52	–	Story
14	Vivekananda	8	2.10	–	Speech
15	Niti Ke Dohe	9	1.34	–	Poetry

16	Kanya Kumari	10	4.21	–	Description and dialogue
17	Nachne Wali Ankhen	11	3.23	–	Story
18	Jhansi Ki Rani	13	4.51	–	Poetry
19	Gillu	14	2.19	–	Dialogue
20	Sushrut	15	3.24	–	Dialogue
21	Hum Dharti Ke Lal	17	3.14	–	Poetry
22	Pari Ki Bhait	19	6.53	–	Story
23	Idgah	21	4.06	–	Play
24	Pad	22	2.05	–	Poetry
25	Jhansi Ki Rani - Kaise Padhein	13	30	–	Poetry
26.	Bole Batiyaen	–	30	–	Discussion

Notes : 1. Audio programmes from 1 – 8 are available in one audio cassette.

2. Programmes from 9 – 24 are being made available in another cassette. Code 25 and 26 are tutorials and not available in cassette.

English

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
1	Let's Learn English-1			30	Tutorial
2	Lesson Reading			30	-do-
3	Smart Grammer-using Can & May			30	-do-
4	Let's Learn English-4			30	-do-
5	Let's Learn English-5				
6	Let's Learn English-6				
7	Let's Learn English-7				

Sanskrit

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
1	Lesson Reading	1, 2, 3, 4	30	–	Tutorial
2	Lesson Reading	8, 9, 10	30	–	-do-

Mathematics

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
1	Introduction to Algebra	6	–	30	Tutorial
2	Ganit Ke Vidharthiyon ki samanya galtiyon - Nidan Aur Sujhav	–	30	–	-do-

Science

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
1	Matter Around us	4	30	–	Tutorial
2	Progress in Food Grain Production	23	30	–	-do-
3	Study of Nature	1	30	–	-do-
4	Healthy Life Cleanliness	22	30	–	-do-

Social Science

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
1	The Rise of Cities and Trade	11	30	–	Tutorial
2	The Story of Agriculture	9	30	–	-do-
3	Sanskrit		30	–	-do-

Home Science

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
1	Air & Water	2, 4	30	–	Tutorial

AUDIO PROGRAMMES AT SECONDARY LEVEL

Hindi (201)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
201/A-1	Tel Ki Dhar	–	15	–	Story
201/A-2	Wohh Mani Hai Santosh	–	8	–	Poem
201/A-3	Jhagare Kyon	–	7	–	Talk

201/A-4	Platform	–	5	–	Dialogue
201/A-5	Bhashan (Speech)	–	6	–	Speech
201/A-6	Samachar Bulletin (News)	–	6	–	News
201/A-7	Durbhash (Telephone Conversation)	–	8	–	Telephone Conversation
201/A-8	Durghatna (Drama)	–	6	–	Drama
201/A-9	Kalpna Khel (Game)	–	10	–	Game
201/A-10	Uchcharan (Pronunciation)	–	6	–	Pronunciation
201/A-11	Sangam, Anutan aur Balaghath (Intonation etc.)	–	5	–	Intonation etc.
201/A-12	Kahani (Story)	–	8	–	Story
201/A-13	Bhoomika Nirwah (Role-Play)	–	5	–	Role-Play
201/A-14	Varnan (Description)	–	7	–	Description
201/A-15	Ankhon Deha Hal	–	4	–	Commentary
201/A-16	Sandhi Aur Samas ka Vyavaharik Prayog	–	30	–	Tutorial
201/A-17	Bole kaise	–	30	–	Tutorial

* The above audio programmes are available on two cassettes i.e. from 1 - 7 in one cassette and 8 - 15 on another cassette. Serial nos. 16 and 17 are tutorials and not available in cassettes.

English (202)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
202/A-1	A Telephone Conversation	Mod. 3	–	7	Listening & Speaking Module
202/A-2	A Conversation on Favourite Pastimes	-do-	–	5	-do-
202/A-3	Announcements in Examination Hall	-do-	–	7	-do-
202/A-4	Asking for Directions	-do-	–	5	-do-
202/A-5	Announcement at Public Places	-do-	–	5	-do-
202/A-6	The Bag	-do-	–	7	-do-
202/A-7	A Report on the Nine Day Meditation Camp at Tihar Jail	-do-	–	13	-do-

202/A-8	An Introduction to Dr. Kiran Bedi: The Wonder Women	-do-	–	5	-do-
202/A-9	Each One Teach One	-do-	–	6	-do-
202/A-10	Cricket Star Kapil Dev	-do-	–	4	-do-
202/A-11	A Quiz on Cricket	-do-	–	3	-do-
202/A-12	Instructions on How to Fill a Money Order Form	-do-	–	7	-do-
202/A-13	Big Brother and Leisure		–	30	Tutorial
202/A-14	Tiger in the Tunnel and the Road not Taken		–	30	Tutorial

* The above programmes 1 - 12 are available in one cassette and 13 - 14 are tutorial for broadcast.

Urdu (206)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
206/A-1	Ghalib	9	30	–	
206/A-2	My Bicycle	2	30	–	Old Syllabus
206/A-3	Adminama	6	30	–	Tutorial
206/A-4	Drama	16	30	–	-do-
206/A-5	Urdu Hamari Jaban	5	30	–	-do-
206/A-6	Nazir Akbarabadi ki nazam-adminama		30	–	-do-
			30	–	-do-
206/A-7	Meer-taki - Meer ki gazalgoi		30	–	-do-
206/A-8	Shariyar aur Firaq Ghorakhpuri ki gazalgoi		30	–	-do-
			30	–	-do-
206/A-9	Firaq Ghorakhpuri ki ek gazal		30	–	-do-
206/A-10	Kabir	13	30	–	-do-

Sanskrit (209)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
209/A-1	Prerna	1	30	–	Tutorial
209/A-2	Sadachar	2	30	–	-do-

Mathematics (211)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
211/A-1	Number System	1	–	30	Tutorial
211/A-2	Story of Numbers		–	30	-do-
211/A-3	Tribhuj aur unke Prakar		–	30	-do-
211/A-4	Quadrilaterals & their classification		–		-do-
211/A-5	History of Mathematics		–	30	-do-
211/A-6	Common Errors in Mathematics and Remedial Suggestions		–	30	-do-

Science and Technology (212)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
212/A-1	Vayu		30	–	Tutorial
212/A-2	Gharshan Vidhut Aur Vidhut Aveshon ke Gun Dharm		30	–	
212/A-3	Padarth ki Avasthain		–	–	-do-
212/A-4	AIDS		–	–	-do-
212/A-5	Parmanu ki Kahani	2	30	–	-do-

Social Science (213)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
213/A-1	An Overview of our Freedom Struggle	17-22	30	–	Tutorial
213/A-2	The Evolution of Human Society		30	–	-do-
213/A-3	Human Rights	27	–	30	-do-

Economics (214)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
214/A-1	Population and Development	–	–	30	Tutorial
214/A-2	Consumer Awareness	–	–	30	-do-

Computer Science (711)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
1	Aao computer ke bare mein jaane	–	–	–	Tutorials

Business Studies (215)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
215/A-1	Large Scale Retail Trade	21	–	30	Tutorials
215/A-2	Wise Buying	26	–	30	-do-
215/A-3	Savings and Investment	28	–	30	-do-
215/A-4	Structure of Business		–	30	-do-
215/A-5	Sole proprietorship		–	30	-do-
215/A-6	Sanskrit Samiti	9	30	–	-do-

Home Science (216)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
216/A-1	Home & Home Decoration	9	–	30	Tutorials
216/A-2	Bhojan Aur Uske Poshak Tatva	2	30	–	-do-
216/A-3	Parivar		30	–	-do-
216/A-4	Sishu Vikas ke Siddhanth		30	–	-do-
216/A-5	Bhojan Pakane ki Vidhiyan		–	–	-do-
216/A-6	Selection of Clothing		–	30	-do-
216/A-7	Summer Dressing		–	–	-do-
216/A-8	Nutritional Care of Infants	2,3	–	30	-do-
216/A-9	Nutritional Requirement of Women	-do-	–	30	-do-

Sahaj Sangeet Vidya (609)

Sl. No. Code	Programme	Duration	
		(English)	(Hindi)
	Introduction	00:56 Sec.	1:31 Min.
609/A-1	Dhrupad-Raga Bhariavee	07:00 Min.	7:00 Min.
609/A-2	Khayal-Raga Marwa	06:00 Min.	6:36 Min.
609/A-3	Raga Yaman	06:27 Min.	6:11 Min.

609/A-4	Raga Bhupali	09:25 Min.	9:35 Min.
609/A-5	Raga Khamaj	04:42 Min.	9:35 Min.
609/A-6	Dadra-Raga Mishra Kirwani	07:41 Min.	7:42 Min.
609/A-7	Tappa Raga Bhairavee	06:50 Min.	6:25 Min.
609/A-8	Tarana-Raga Bilawal	08:28 Min.	7:49 Min.
609/A-9	Geet-Tum Nirmohi Ajahu Na Aaye	04:00 Min.	4:06 Min.
609/A-10	Ghazal-Aaj Jane Ki Zid Na Karo	05:28 Min.	5:28 Min.
609/A-11	Bhajan-Mero Mann Ram Hi Ram Rate	05:00 Min.	5:00 Min.
609/A-12	Balihari Nizam Tori Surat Pe	06:30 Min.	6:27 Min.
609/A-13	Tu Jahan Jahan Chalega	03:26 Min.	3:29 Min.

AUDIO PROGRAMMES AT SENIOR SECONDARY LEVEL

English (302)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
302/A-1	Introduction, Two Geniuses	Mod.	–	7.08	Listening & Speaking Module
302/A-2	Caring for others	-do-	–	3.50	-do-
302/A-3	Inviting People	-do-	–	3.40	-do-
302/A-4	Taking & Conveying Messages	-do-	–	4.10	-do-
302/A-5	Formal & Informal Styles in Speech	-do-	–	4.50	-do-
302/A-6	A Visit to Delhi	-do-	–	3.30	-do-
302/A-7	Looking after Puppy	-do-	–	5.55	-do-
302/A-8	Two Songs: i) Let's Wipe the tears, ii) Two Wings to Fly	-do-	–	6.50	-do-

*Above programmes 1 - 8 are available in one cassette.

Urdu (306)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
306/A-1	Agle Janam Mohe Bitiya Na Kijo	3	30	–	Tutorial

Biology (314)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
314/A-1	Vayu Pradushan		30	–	Tutorial
314/A-2	Jaiv Vikas	6	30	–	-do-
314/A-3	Jal Pradushan	37	30	–	-do-
314/A-4	Vaigyanik Jigyasha	–	30	–	-do-

Chemistry (313)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
313/A-1	Dainik Jeevan main Rasain Shastra Ka Yogdan		30	–	Tutorial
313/A-2	Drabya Ki Sanrachna aur uske Gundarm	2	30	–	-do-

Business Study (319)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
319/A-1	Joint Stock Company		–	30	Tutorial

Accountancy (320)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
320/A-1	Accounting and its Assumptions Concepts Conventions	1, 2, 3	–	30	Tutorial
320/A-2	Accounting Terms & Accounting Equation	5, 6	–	30	-do-
320/A-3	Journal		–	30	-do-
320/A-4	Financial statement		–	30	-do-

History (315)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
315/A-1	Itihas – Iska Charitra, Sarthaktha aur Upadayita		30	–	Tutorial
315/A-2	Ashok aur Uska Yug	12	30	–	-do-

Home Science (321)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
321/A-1	Meal Planning	21	–	30	Tutorial
321/A-2	Jeevan Ka Prarambh		30	–	-do-
321/A-3	Garbhaawastha		30	–	-do-

Psychology (328)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
328/A-1	Psychology: An Introduction	1	30	–	Tutorials
328/A-2	Sikhne Ka Samprataya Tatha Prakar	6	30	–	-do-
328/A-3	Prakarti ke Sarokar	26,29	30	–	-do-
328/A-4	Carrier-1		30	–	-do-
328/A-5	Carrier-2		30	–	-do-
328/A-6	Self-Esteem		30	–	-do-
328/A-7	Stress Management		–	–	-do-

Computer Science (330)

Prog. Code	Title of the Programme	Lesson No.	Duration in Minutes		Remarks
			in Hindi	in Eng.	
330/A-1	Data Communication and Networking	5	30	–	
330/A-2	Anatomy of Digital Computer	1	30	–	

AUDIO PROGRAMMES ON GENERAL TOPICS

Prog. Code	Title of the Programme	Duration in Minutes		Remarks
		in Hindi	in Eng.	
Gen/A-1	The Missing Girl Child in India	–	30	
Gen/A-2	How to Read	30	–	
Gen/A-3	Rajyabasha Hindi	30	–	
Gen/A-4	Bharatiya Sanskriti	30	–	
Gen/A-5	How to Listen	30	–	
Gen/A-6	Sikhne ke Kaushal	30	–	

Gen/A-7	Padho Likho Aao Vadha Lo Gyan	5	–	
Gen/A-8	Padhne Likhne Se Nahi Daro	5	–	
Gen/A-9	NIOS Ka Ahavan Jab Chaho do Exam	5	–	
Gen/A-10	Sab Padhen Aage Badhen	5	–	
Gen/A-11	NIOS Ka Ahavan	4	–	
Gen/A-12	NIOS Shiksha Ka Vardan Hai	5	–	
Gen/A-13	Siksha Ka Maan Karen Aao Samman Karen	7	–	
Gen/A-14	NIOS ka Ahavan	5	–	
Gen/A-15	Tips for Examinations	–	30	
Gen/A-16	Swasthya Chintan – HIV AIDS-1	30	–	
Gen/A-17	Swasthya Chintan – HIV AIDS-2	30	–	
Gen/A-18	Swasthya Chintan – HIV AIDS-3	30	–	
Gen/A-19	Swasthya Chintan – HIV AIDS-4	30	–	
Gen/A-20	Consumer Movement & Consumer Education	–	30	



Video Programmes

VIDEO PROGRAMMES FOR OPEN BASIC EDUCATION

Mathematics

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
1.	Ekai Dahai Saikda	–	–	Hindi	08.00	–

This programme depicts how mathematical concepts like place value could be made easy to comprehend OBE level learners using play way methods. The programme highlights that in playful group activities, the learners not only learn faster but also develop feelings of cooperation and friendship.

2.	Khel Khel Mein Jodo Ghatao	–	–	Hindi	17.44	–
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As the title of the film shows the film is based on the subject Mathematics. The film depicts how to add a value to another and how to subtract one value to another. The important thing is that the process of adding and subtracting explains through a game using paper cards having a number and plus minus sign on each of them. Interpersonal interaction is also developed through this film.

3.	Samridhi Jiwan Ki Kunji – Yog - I	–	–	Hindi	23.30	–
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This is part one of the series called Samridhi Jiwan Ki Kunji-Yog. The objectives of the series has to enrich NIOS learners and demonstrate them the exact posture of yoga. In the beginning a short introduction of yoga has been taken. Then after Shawasana, Tadasana, Bajuon Ki Kriyaayein & Pairon Ki Kriyayein has been taken for demonstration. The process of yoga and how to begin with yoga has been depicted in the film. After every posture yoga expert explains the benefits of the yoga.

4.	Samridhi Jiwan Ki Kunji – Yog - 4	–	–	Hindi	19.24	–
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This is 4th part of the series called Samridhi Jiwan Ki Kunji - Yog. This film depicts how to take right posture in different Asanas and Kriyas i.e. Baith Kar Ki Jane Wali Kriyayein, Baju Dayein Bayein Failana, Baju Uper le Jana, Kuhniyon ko Guhmana, Baju Upar Niche Karna. Khil Khlia Kar Hansna, Singhasan & at last ending prayer. The benefits of these asanas & kriyayin have also been explained by yoga expert.

VIDEO PROGRAMMES FOR SECONDARY LEVEL

Hindi (201)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
201/V-1	Jab Ek Din Calendar Bola	Reading	29	Hindi	10.00	–

This programme presents the importance and need of language-use in data organisation which can be expressed in different forms like flowchart, pie chart, tree-diagram, etc. Such forms of data organisation help in considerable savings in terms of time and energy. This aspect has been brought out through an interaction between an office employee of a company and an imaginative character representing the viewpoint of a calendar for effective communication.

Urdu (206)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
206/V-1	Urdu Hai Jis Ka Naam			Urdu	20.40	–

Besides presenting a brief history of Urdu language, the programme offers a glimpse of the importance feature of Urdu language. The Ghazal and a small play have been used to highlight the beauty of the Urdu language.

206/V-2	Ghazal	4	21	Urdu	28.38	--
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The programme is based on the history of Ghazal and its development. Important features of Ghazal, a popular form of Urdu poetry have been described in the present programme. The contribution of various legendary ghazal writers and poets like Mir, Daag, etc. have been highlighted in the programme.

206/V-3	Fiction	1	1	Urdu	28.20	--
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This programme deals with various forms of fiction in Urdu literature like Dastan, Novel Afsana, etc. Various aspects like plot, kirdar, etc., related to Urdu fiction, called Dastan have been explained through an interaction between the student participants and the Urdu expert. Works of popular writers like Prem Chand and Rajinder Singh Bedi have also been discussed in detail in this programme.

206/V-4	Nazm	2	8	Urdu	26.00	--
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A brief history of Nazm – a form of Urdu poetry has been described in the programme. Besides it the work of both classical Poets like Hali, Nazeer Akbarabadi etc., and some of the present day exponents of this art form have also been highlighted in the programme.

206/V-5	Marsiya	Poetry		Urdu	25.43	--
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Marsia is one of the form of Urdu poetry. In this form of poetry the poet expresses the sorrow and

grief after the death. Most of the Marsias are written on the harassment and torture of Hazrat Iman Hussain in Karbala. In this course the famous Marsia poet Mir Anis have been included so that students could understand the feeling which the poet has expressed about Hazrat Hussain.

206/V-6	Sir Syed aur Unka Mazmoon			Urdu	26.39	--
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In English Mazmoon is called essay. Through his Mazmoon Sir Syed had tried to explain how to write an essay, which was a new born of literature at that time. After studying this Mazmoon, students will be able to know about Sir Syed Ahmed Khan.

206/V-7	'Aazamaish' Ek Urdu Drama			Urdu	29.30	--
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Through this video programme on 'Aazamish' the author tried to express how to perform a drama. This film reveals the history of Urdu drama and the prominent dramatist of Urdu language. The present status of drama in Urdu language has been discussed.

Mathematics (211)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
211/V-1	Profit and Loss	Arithmetic	12	Hindi & Eng.	12.00	10.20

This programme deals with the basic concepts of percentage, profit & loss and discount. These concepts have been introduced with the help of real-life shot of shops and vendors. Few solved examples have also been explained in the programme to highlight the concepts. The programme poses few problems for the students and explains how to solve them.

211/V-2	Area	Mensuration	27	Hindi & Eng.	16.00	16.00
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This programme explains the concept of area of plane, its unit and the method of its measurement. It also demonstrates why the square of 1 cm is an appropriate unit for measuring the area of plane figures. Application of the formulae for calculating areas of different geometrical figures has been explained for different situations. The method for computation of the area of the walls of a house has been demonstrated through activities.

211/V-3	Banking System	Arithmetic	16	Hindi & Eng.	17.37	17.00
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Actual working of a bank has been highlighted in this programme. Various activities, normally carried out in a bank have been explained in this programme. The concept of banking, various types of accounts, their special features and need have also been explained. The method of computation of interest in a Savings Bank account has been described with the help of few daily life examples.

211/V-4	Circle	Geometry	24	Hindi & Eng.	14.00	14.40
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This programme deals with a very common geometrical figure, the circle. The programme highlights

the circle as one of the simplest geometrical figures with the widest possible use in our daily life. The use of the circle, its properties and special features have been described with the help of a number of common examples. The example of the road being tangential to the wheel of a moving vehicle (bus) is included as an example of the application of the abstract mathematical concept of tangents.

211/V-5	Statistics through Graphs	Statistics	31	Hindi & Eng.	15.00	15.20
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This programme introduces one of the most widely applied branches of Mathematics, viz. Statistics. Besides explaining the need for studying statistics, the programme explains the basis of the Statistics, its terminology and special features. The use of various statistical diagrams, their construction and interpretations have also been highlighted in the programme.

211/V-6	Geometry Around Us	Geometry	5	Hindi & Eng.	16.00	16.00
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This programme highlights the importance of the study of Geometry and describes the various applications of Geometry in daily life. The presence of Geometry in nature around us that appeals to our aesthetic sense has also been covered in the programme. Besides highlighting the use of Geometry and various geometrical shapes in construction of buildings, bridges, dams, etc. the programme highlights the use of geometry by craftsmen, potters, artisans and architects also.

211/V-7	Lines and Angles	Geometry	6	Hindi & Eng.	13.00	13.00
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This programme deals with the meaning of lines, line segment, rays and their differences. This programme also shows drawing of lines and angles. The application of lines and angles in different situations has also been shown in the programme. The concept and application of parallel lines and perpendicular lines has also been shown in this programme. The real life applications of parallel lines by focusing on railway lines & construction of buildings have been described in the programme.

211/V-8	Triangles	Geometry	20	Hindi & Eng.	11.00	10.20
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This programme deals with one of the most important polygons viz. the triangle. Besides highlighting different properties of a triangle, various applications of the triangles have been explained in the programme. The programme focuses on this different types of triangles.

211/V-9	Congruency & Similarity	Geometry	20&23	Hindi & Eng.	15.00	15.10
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This programme brings out the distinction between two very important concepts in Geometry, viz. the concept of congruency and similarity. Special properties of congruent and similar triangles have been explained in this programme. Activities like cutting and folding papers have been extensively used during the presentation to give clear visual inputs.

211/V-10	A Quadrilateral	Geometry	21	Hindi & Eng.	13.28	13.28
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This programme deals with a geometrical figure–Quadrilateral. The meaning, types and properties of quadrilaterals are all explained through activities and graphs. Specific properties of special types of quadrilaterals have also been explained in this programme.

211/V-11	Real Number	Algebra	1	Hindi & Eng.	14.00	11.55
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This programme reviews rational numbers and creates the need for real numbers. It is an activity-based programme in which real numbers have been defined and their properties have been explained with the help of examples. Computer graphics and animation have been used to make the programme more lively and enjoyable.

211/V-12	Rational Number	Algebra	1	Hindi & Eng.	13.05	12.50
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This programme on number system reviews integers and highlights the need for fractions. The extension of number system to rational number is done on the basis of the concept of fraction. The whole programme proceeds with computer graphics and animated figures.

211/V-13	Integers	Algebra	1	Hindi & Eng.	11.30	11.10
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This programme is about the need of numbers in our daily life and deals with the different stages of the expansion of number system i.e. from natural numbers to integers. The basic mathematical operations like addition, subtraction, multiplication and division have been explained in the programme through various examples.

211/V-14	Computer – An Introduction	Computing	33	Hindi & Eng.	10.40	09.45
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This programme justifies the study of computers and cites the various applications of computers in daily life. It explains the various stages of the development of computers and highlights various types of computers. The contribution of the persons who are responsible for this remarkable gift to mankind have also been mentioned.

211/V-15	Algorithm & Flow Chart	Computing	34	Hindi & Eng.	10.55	10.45
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This programme highlights the role of flow charts in feeding instructing & information into the computer in a particular order so that the computer functions in the right direction. The unique feature of this programme is the way the concept of flow chart has been described with the help of various examples and activities. This programme also shows the characteristics of various programming languages.

211/V-16	Volume and Surface Area	Mensuration	28	Hindi & Eng.	14.50	14.40
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This programme deals with the application of formulae to find out volume and surface area of solids of different size and shapes in our daily life. The uses of these concepts in our daily life have been presented through computer graphics and group activities of the children. This programme also shows why a cube of side 1 cm is used as the standard unit for measuring volume.

211/V-17	Pythagoras Theorem	Geometry	20	Hindi & Eng.	12.20	12.40
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This programme deals with a very interesting property of a right-angled triangle and highlights Pythagoras in this regard. With the help of this property, the method of finding the height of mountain

peaks, distances between stars and their sizes have been explained in this programme. The use of this property has been shown with the help of some examples.

211/V-18	Statistics	Statistics	31	Hindi & Eng.	17.30	16.40
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In this programme the methods of collecting information and their importance have been highlighted. This programme shows the various ways in which we can process data to get the much desired information. The terminology and special features of the study of Statistics are also covered in the programme in a dramatization format.

211/V-19	Height & Distance	Trigonometry	30	Hindi & Eng.	13.50	13.55
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In this programme the methods of finding values of T-Ratios for angles and their use to find unknown heights & distances have been described. This programme also shows how “Scientific Computer” is used for finding these values. It also shows how to use Clinometer to measure an angle. The angles of depression & elevation have also been explained through various examples using animated figures.

211/V-20	Trigonometry- An Introduction	Trigonometry	29	Hindi & Eng.	15.50	16.25
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This programme deals with application of Pythagoras theorem and other properties of a triangle in our day-to-day life. Its applications have been demonstrated by taking some common examples like finding the height of a pole without climbing it. The ratios and the relations between the sides and angles of right angle triangle have been shown with the help of computer graphics. A few trigonometric identities have also been covered in the programme.

Science & Technology (212)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
212/V-1	Pendulum	Measurement in Science and Technology	1	Hindi & Eng.	14.56	15.45

The programme starts with a number of examples of oscillatory motion in our daily life. It describes the experiments performed with the help of a pendulum. The first experiment is to find the time period of different amplitudes. In the second experiment, the time period has been computed for different lengths of the pendulum and the third experiment shows that the time period of a pendulum is independent of the mass of the job. The programme concludes with the findings of these experiments, emphasising the need of the exact and accurate measurements.

212/V-2	Archimedes Principle	–	12	Hindi & Eng.	11.00	11.20
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The programme deals with Archimedes Principle and its uses in our daily life. The programme explains the conditions of floating bodies. The programme also shows an experiment to measure the up-thrust on a body. A laboratory experiment has also been explained to verify the Archimedes’ Principle

to emphasise the importance of upthrust on a body in a liquid. Theory and experiment is well knit in the programme. A number of examples have been included to highlight the principle in our daily life.

212/V-3	Let's Measure Length	Measurement in Science and Technology	1	Hindi & Eng.	18.00	17.35
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This programme deals with standardisation of units and highlights the concepts of the least count of different scales for measurement of length. The main focus of the programme is on the description of construction, working and principle of vernier callipers and the screw gauge. The importance of the least count and the zero error of these instruments have been highlighted. The methods of using these instruments and recording the final reading have also been explained.

212/V-4	Our Food	Life Processes	25 & 31	Hindi & Eng.	25.00	25.00
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This programme highlights the importance of food in providing energy and strength for keeping our body fit and healthy. Besides highlighting the dependence of animals and human beings on plants for food, the importance of the sun, air and water for making food has also been highlighted. The muscular system, nervous system, excretory system, circulatory and digestive system of the human body have been explained highlighting the functions of the organs of these systems. The chemical composition of food as proteins, fats, carbohydrates are dealt with in detail with suitable examples. Sources and functions of different types of food have also been described in this programme. The cause and prevention of different types of deficiency and malnutritional diseases have also been covered. Besides highlighting the importance of personal hygiene, food habits and other sanitary conditions, the programme has touched upon the causes and prevention of various diseases like cholera, typhoid, jaundice etc.

212/V-5	Materials Around Us	Man Made Materials and Environmental Process	21	Hindi & Eng.	11.00	11.00
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This programme begins by distinguishing between natural and man-made materials with sufficient number of examples of such materials. The materials of common use like glass, cement and materials for clothing like cotton, wool, silk, nylon etc., has been explained in the programme. Further it highlights monomers and polymers. Several other materials like paints, soaps, detergents have also been described highlighting effects on pollution. Petroleum products, their uses and harmful effects have also been described with examples. The materials used in the field of medicines and in agriculture like fertilizers and insecticides have also been highlighted. Finally the programme concludes with a message to conserve the natural resources.

212/V-6	Simple Machines	–	11	Hindi & Eng.	12.55	12.30
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This programme highlights different types of simple machines like lever, pulley, wheel & axil, inclined plane, screw, wedge etc., commonly used in our daily life. The working principle of each

machine has been explained through graphics & diagrams. A few illustrations of complex machines like pump, sewing machine, etc., have also been highlighted in the programme.

212/V-7	Atmospheric Pressure	Our Environment and Natural Resources	18	Hindi & Eng.	11.35	11.18
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This programme is about atmospheric pressure and its applications in our daily life. With the help of an experiment, the programme explains that anything having weight pushes or presses other things. Besides highlighting the factors affecting atmospheric pressure, the programme also displays the units and the instruments used for measuring atmospheric pressure. Live shots as well as diagrams and animation have been used to enrich the programme.

212/V-8	Electric Current	Energy Around Us	12	Hindi & Eng.	12.30	12.15
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This programme starts with an introduction to electric current or electricity. The electrons and their flow has been explained with the help of the experiments. The Coulomb's Law and its applications has also been described in the programme. Besides highlighting the conducting and some non-conducting substances, the concept of resistance and unit of current have also been explained in this programme. Definitions, diagrams and equations have been displayed through graphics and animations at the different places.

212/V-9	Electromagnetism	Energy Around Us	13	Hindi & Eng.	10.35	11.00
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The basic concept of electromagnetism and electricity, which we use for our domestic purposes, has been explained in the programme. In the first half of the programme electromagnetism has been introduced with the help of three experiments. The generation of electricity due to the motion of a magnet and its applications in different domestic appliances like electric motor, fan and generator have been highlighted. The working principle and uses of electric generator have also been highlighted. The programme deals with importance of domestic wiring and highlights various types of wires and household circuit. The basic principle of working of some of the electrical appliances of common use like electric bulb, electric iron, immersion heater have also been explained with the help of diagrams and graphics.

212/V-10	Description of Motion	Motion and its Description	7	Hindi & Eng.	14.30	13.40
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Beside describing the basic concept of motion, the difference between rest and motion has been explained in the programme. The terms like distance displacement, speed and velocity have also been explained with the help of examples. Further, with the help of live visuals, graphics and animation, uniform and non-uniform motions have been differentiated. Before concluding, the programme ex-

plains acceleration and retardation with the help of live examples and offers a recap of the programme.

212/V-11	Communication	Technology and Communications	34	Hindi & Eng.	16.00	16.35
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The programme deals with the means of communication and highlights various theories of communication. This programme depicts the different types of means of communication including symbols and emotions. Besides marking differences between verbal and non-verbal communication, the programme also displays some devices through which communication is possible. The programme also explains the concepts like wavelength, frequency, amplitude and electromagnetic waves.

212/V-12	Nuclear Energy	Energy Around Us	14	Hindi & Eng.	15.17	14.50
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This programme explains the meaning of nuclear energy, its uses and importance with the help of familiar examples. The main focus of the programme is to highlight the nuclear reactions like – nuclear fission and fusion, and to explain the principle of nuclear reactor. A brief introduction to the status of nuclear energy in India has also been given in the programme. Besides describing the harmful effects of nuclear energy, the problem of disposal of the nuclear waste has also been explained in the programme. The programme concludes with a recap of the programme.

212/V-13	Energy	Energy Around Us	9	Hindi & Eng.	14.40	14.40
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The programme explains the term ‘energy’ and describes different kinds of energy. Different types of energies like kinetic energy, potential energy, radiation energy, magnetic energy and chemical energy have been highlighted in the programme. A few natural resources from which energy is drawn have also been given in the programme.

212/V-14	Tele-communication	Technology and Communications	34	Hindi & Eng.	17.40	17.40
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This programme deals with the different types of waves used for communication. To begin with a radio panel has been displayed to indicate medium waves (MW), short waves (SW), frequency modulation (FM) etc. Some devices which use electromagnetic waves for communication have also been highlighted. The programme also talks about video and sound signals and methods of their recording. Besides explaining the working of telephone and other wireless devices, some of the advanced technologies of communication like computer and compact disc have also been described in the programme.

212/V-15	Universe	The Universe and Our Earth	15	Hindi & Eng.	15.30	16.00
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The programme describes the formation of day and night and different seasons by correlating them with different types of motions of the earth. Besides explaining the different phases of the moon

reason of lunar and solar eclipses have also been explained with the help of illustrations and live visuals. Different types of constellations have also been described. Further, while differentiating between stars and planets, a brief description of the nine planets of the solar family has also been given with the help of animated visuals. The other heavenly bodies e.g. asteroids, meteorites and comets have also been explained in the programme.

212/V-16	Motion of Molecules	Life Processes, Natural Resources	26, 18	Hindi & Eng.	11.23	09.55
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This programme explains the nature of movement of a molecule. The process of diffusion has been demonstrated in air as well as in water. The programme shows the involvement of such movements in food and O₂ molecules in the cells and the elimination of wastes i.e. elimination of CO₂ from the cell. The process of osmosis has been explained with the help of experiment. The programme shows the nature of fluids with regard to their viscosity by taking several examples like petrol, mobil oil etc. A comparison between the movements of objects in a factory and the movement of molecules has also been shown in the programme.

212/V-17	Human Reproduction	Life Processes	29	Hindi & Eng.	12.53	13.50
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This programme emphasises that all organisms must reproduce for maintenance of their species. Various parts of the male and the female reproductive system have been described in the programme. The processes of formation and production of the ovum have been shown in relation to the menstrual cycle in females. The programme also shows the various steps in fertilization, development and growth of the foetus. A special depiction is made in the programme on the basis of the determination of sex of the child.

Towards the end, several aspects of a pregnant mother have been shown with regard to the proper environment and nourishment etc. and also aims to suggest the right age group of females for having children and the importance of family planning and methods for achieving the same.

212/V-18	Skeleton Muscles and Movement	Life Processes	28	Hindi & Eng.	12.20	11.00
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This programme highlights the need of the locomotory system in the animal world by showing different animals, each one in an active phase of movement either for food or for protection against enemies.

The second part of the programme explains the need of the skeleton to give shape to the body and to provide attachment to muscles. The programme also brings out the differences between bone and cartilage and explains various kinds of joints and muscles, and shows the working of these muscles in movement and in various postures. The need of maintaining proper posture during various activities is also highlighted.

212/V-19	Agricultural Practices	Agricultural Practices and Animal Husbandry	32	Hindi & Eng.	12.12	12.30
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This programme throws light on those scientific and agricultural practices, which are necessary to increase our food production. Various methods and techniques to increase production have also been explained and each part of those methods have been highlighted. Towards the end, the programme emphasizes that scientific and agricultural practices are the only means for achieving success in better food production.

212/V-20	Animal Husbandry	Agricultural Practices and Animal Husbandry	32	Hindi & Eng.	12.08	12.30
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This programme focuses on the uses of animals and their classification. The programme shows different types of sheds for different types of animals, which protect them from heat, cold, rain etc. This programme also shows prevention of various diseases like viral, bacterial and fungal.

212/V-21	Wonders of Radio Activity	Energy Around Us	14	Hindi & Eng.	13.47	13.40
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This programme begins with elucidation of the phenomenon of radioactivity in its entirety. The programme demonstrates the uses of radioactivity in various areas such as medicine, archaeology and other basic and applied sciences. The programme also highlights the pioneering contributions made by scientists like Henry Becquerel, who discovered radioactivity; and Nobel prize winner Madam Curie in the field of radioactivity.

212/V-22	Changes Around Us	–	8	Hindi & Eng.	15.50	15.50
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Everyday all of us experience change. In order to highlight this fact, this programme is developed for learners at upper primary level. This programme depicts various types of changes which take place around us in our immediate environment.

212/V-22	Man & Environment	Our Environment and Natural Resources	17 & 22	Hindi & Eng.	14.20	14.40
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The programme highlights the characteristic features of the living and non-living constituents of our environment. The importance of environment for our survival and the uniqueness of the planet earth for sustaining life has been described. The life sustaining conditions have also been mentioned in the programme. The constituents of biosphere such as hydrosphere, lithosphere and atmosphere have been described in the programme. The ecosystem with special reference to biotic and biotic components has been explained with live examples. The food chain, food web and the energy flow have also

been described emphasising their importance in maintaining natural balance. Besides describing the hazardous effects of environment pollution, the possible precautionary measures to control environmental pollution have also been suggested in the programme.

Social Science (213)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
213/V-1	Interaction between Man & Environment	Contemporary India: Issues and Challenges	34	Hindi & Eng.	07.45	07.20

This programme is about different patterns of interaction between man and environment. To illustrate how man has been living with his natural surroundings, given the environmental and cultural constraints, this programme shows how the tribal people in various countries of the world have over the years, learned to adapt and adjust with their natural habitats. This programme also shows how modern man, on the other hand, has learned to mould nature according to his own needs and requirements by constructing dams and canals, making deserts green and creating high-tech living environs even in harsh inhabitable natural regions such as the Antarctica.

213/V-2	Utilisation and Management of Natural Resources	India: Natural Environment, Resources and Development	7-13	Hindi & Eng.	09.55	10.34
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This programme is about over-exploitation of the natural resources in the face of increasing demands of rapidly rising human population. This programme suggests ways and means that need to be adopted to achieve efficient management of the natural reserves of our planet, so as to ensure their availability for the present and future generations.

213/V-3	Population, Environment & Quality of Life	Population: Our Greatest Resource Contemporary India: Issues and Challenges	14-34	Hindi & Eng.	09.52	11.00
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This programme depicts how man has exploited nature for his own survival. The programme shows the ways and means adopted by modern man in order to satisfy his ever-increasing needs and wants which has led the depletion of the natural resource base of the earth. This has resulted in paucity of resources and coupled with unequal distribution of the resources among socio-economic groups in human societies. The programme also shows how these factors have contributed to the rising trends in poverty, hunger, diseases, unemployment, crime-rate and other such social evils in a developing country like India. This programme delves deep into such issues and suggests corrective measures needed to alleviate the situation.

213/V-4	Contribution of Ancient Civilization	Evolution of Human Civilization	1	Hindi & Eng.	10.25	10.42
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The programme documents a very important phase of human history, marked by the emergence of the Bronze Age civilization of the Indus Valley, China, Egypt and Sumer. Starting with a brief overview of the specific geographical and socio-cultural traits, the programme highlights the unique contributions of these civilizations in the field of science, arts, crafts and culture.

213/V-5	Cultural Heritage of India	India: People, Society and Culture	16	Hindi & Eng.	26.00	26.00
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This programme highlights our cultural achievements from ancient to modern times in the fields of science, medicine, astronomy, metallurgy, art and architecture and literature. The purpose of this programme is to educate the learners about the unique features that form the essence of our culture and civilisation which have universal appeal and relevance. Homage is also paid to the brave soldiers who fought for the freedom of India in this programme.

213/V-6	Religions of India	India: People, Society and Culture	16	Hindi & Eng.	20.30	20.40
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This programme attempts to inform and educate the young generation about the unique features and essence of our religions, which have a universal appeal. It highlights salient characteristics of religions of India viz. Hinduism, Jainism, Buddhism, Islam, Sikhism, Christianity, Zoroastrianism etc. Actual footage of tribal worship has been utilised to highlight religious practices of the tribal people.

213/V-7	We Govern Ourselves	Democracy at Work		Hindi & Eng.	12.38	12.10
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This programme on governance relates to the subject of Political Science and is intended for learners of the Senior Secondary level. It presents an interactive classroom session involving a class teacher and her students through which we get to know how the representatives of Lok Sabha and State Assemblies are elected.

Business Studies (215)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
215/V-1	Business Around Us	Introduction to Business	1	Hindi & Eng.	15.00	15.00

This programme starts with a classification of activities from daily life under Economic Activities and Non-Economic Activities. This programme also acquaints the viewers with different types of businessmen like producers, wholesalers, transporters, packers, storekeepers and

their roles in running the chain of business right from production of goods to delivery of goods to the consumer.

215/V-2	Nature and Scope of Business	Introduction to Business and Business Environment	1/1	Hindi & Eng.	15.00	15.00
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This programme deals with three basic occupations, i.e. profession, employment and business and acquaints the viewers with their features. This programme shows how people occupied in these three occupations earn their livelihood by rendering goods and services.

Proceeding with live visuals, this programme also throws light on the relationship between profession, employment and business. This programme also introduces trade and the services that support trade. The programme concludes by showing the interdependence of all the occupation.

215/V-3	Self-Employment Business	Career Opportunities in Business/ Business as a Career	29/4	Hindi & Eng.	15.00	14.45
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This programme defines self-employment by contrasting it with wage employment. This programme throws light on the resources necessary for self-employment. This programme also throws light on the term entrepreneurship.

215/V-4	Dak Ghar Bacchat Yojanaye	Service Sector and Business	13	Hindi	21.00	-
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This programme on the subject of Business Studies is prepared basically for learners at Secondary level. The programme aims to appraise the learners and general public about various Savings Schemes of Post Office and their benefits.

Home Science (216)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
216/V-1	Conservation of Nutrients	-	-	Hindi & Eng.	11.50	11.36

This programme highlights how the nutrients can be conserved at home by the use of correct washing and cutting practices. Also the use of pressure cooker is encouraged so as to save time and nutrients.

216/V-2	Anokha Swad	-	-	Hindi & Eng.	23.00	23.00
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This video programme depicts an elderly women demonstrating to her granddaughters how seasonal fruits and vegetables can be preserved for long using common homegrown skills in making pickles,

murrabas, sherbet, squash, etc. The viewers could easily learn and apply the recipes shown in the programme for preparing the same tasty and nutritive preserves.

VIDEO PROGRAMMES FOR SENIOR SECONDARY LEVEL

English (302)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
302/V-1	Introducing Yourself in different Situations	Listening & Speaking Skills	Mod. 3	English	-	13.30

This programme depicts several ways of introducing ourselves in formal and informal situations. The programme enacts real life situations like interviews, social gatherings etc., to convey appropriate ways of introducing ourselves. It depicts characters representing varying age groups and with different regional (Indian) accents. The objective of this programme is to expose learners to appropriate ways of self-introduction in their daily life.

302/V-2	Nosy Affair	Listening & Speaking Skills	Mod. 3	English	-	10.00
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This programme deals with some of those phrases in the English language that use the human nose in a figurative sense to convey a meaning. It depicts situations that highlight usage of expressions such as Paying through the nose, Poking the nose, to effectively drive home a point of discussion, argument and other forms of interaction. The objective of this programme is to encourage learners to use such phrases in daily speech so as to make communication crisp and effective.

Mathematics (311)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
311/V-1	Coordinate Geometry-I	Coordinate Geometry	23	Hindi & Eng.	23.42	26.57

This programme on Coordinate Geometry will help learners gain a clear insight into the concepts involved. After viewing the programme the learners will be able to know the history of coordinate Geometry. They will also be able to relate the concepts involved in Coordinate Geometry to their real life situations.

311/V-2	Coordinate Geometry-II	Coordinate Geometry	24	Hindi & Eng.	30.00	27.03
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This programme discusses the equations of straight lines under different conditions of parallelism and perpendicularity of two lines. Computer graphics have been used to make it interesting.

311/V-3	Matrix & Operation on Matrices	Determinants and Matrices	6 & 7	Hindi & Eng.	20.00	22.00
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This programme depicts situations involving interactions between three friends, who try to solve problems related with matrix. This programme will help the learners to arrange large number of data in matrix form. Three algebraic operations viz. addition, subtraction & multiplication between matrices are also explained through discussion between three friends.

Physics (312)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
312/V-1	Mechanical Energy	Motion, Force and Energy	6	Hindi & Eng.	13.55	13.50

This programme aims to complement the relevant lessons in the course and presents the topics in a lively and interesting way. The basic concepts of work power and energy have been explained with the help of activities. In order to clarify the phenomenon of conservation of energy, working models available in the National Science Centre have also been shown. The work done by a constant and a variable force has been described with the help of real life situations to enunciate the two types of energy – kinetic and potential. Some practical experiments, animation and diagrams have been included for visualisation.

312/V-2	Surface Tension	Properties of Matter	9	Hindi & Eng.	17.30	16.33
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This programme complements the relevant lessons in the Senior Secondary course. This programme is based on daily life activities. In this programme small experiments relating to surface energy are conducted under the guidance of experts. Besides explaining the concept of surface energy of a liquid through experiments/activities, animation etc., certain important phenomena such as capillary effect, floating of a mosquito on water have been depicted to show the effects and application of surface tension. Several other important applications of the phenomenon of surface tension have also been depicted in this programme.

Chemistry (313)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
313/V-1	The Mole Concept	Atoms, Molecules and Stoichiometry	2	Hindi & Eng.	14.43	14.45

This programme is about the concept of mole in the subject of Chemistry. This programme clarifies this concept with the help of demonstrations of chemical reactions. This programme also deals with

how to calculate the number of moles of a substance. This programme concludes with a brief description of the uses of molar mass followed by a summary of the concepts discussed in the programme. This programme explains the meaning of Avogadro Number 3. This programme also describes the molar masses of different chemical substances with the help of demonstration.

313/V-2	Rate of Chemical Reaction	Chemical Dynamics	12	Hindi & Eng.	13.30	13.28
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This programme is about common chemical processes such as rusting of iron and ripening of fruits. This programme first explains these chemical process and then goes on to demonstrate the effects of factors such as temperature, concentration of chemical reactants, surface tension, catalysts etc. on the rate of chemical reaction.

Biology (314)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
314/V-1	“Respiration in Human”	Gaseous Exchange and Elimination of Wastes	19	Hindi & Eng.	26.14	28.49

This programme is aimed at strengthening the knowledge of learners regarding breathing and respiration in human beings. This programme depicts functioning of the human respiratory system, and differentiates between breathing and respiration. The cellular respiration involving the actual utilisation of oxygen inside the body cells has been described in the programme. The exchange of respiratory gases in the lungs and then their transport to the cells, have been shown through animations, charts and diagrams.

Geography (316)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
316/V-1	Migration	Human Resources and their Development in India	26	Hindi & Eng.	13.47	13.40

This programme is about the process of migration. In this programme comparison is made between the migration of birds and human beings. This is a docu-drama of two young men who came to Delhi in search of jobs. They came from far flung rural areas. This programme depicts various problems confronted by migrants like searching for house, jobs adapting to local environment like congestion, overcrowding etc.

316/V-2	The Mysteries of the Interior Earth	Changing Face of the Planet Earth	8	Hindi & Eng.	13.08	12.27
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This programme on the subject of Geography is prepared for learners at the Senior Secondary level. It aims to show the relationship of earthquakes and volcanoes with present relief features of the earth through effective use of animation, live footage and still photographs.

316/V-3	Mysteries Under the Sea	The Domains of Water on the Planet Earth	6	Hindi & Eng.	14.52	15.05
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This programme on the subject of Geography is prepared for learners at the Senior Secondary level. This programme aims to show the diversity of relief features on the earth surface and under the water. The variety in submarine relief features is also effectively brought out with deft use of animation and live under water footage.

316/V-4	Map Skills	–	–	Hindi & Eng.	–	–
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The video programme revolves around a studio-based discussion among invited subject experts on the topic of Maps. The nature of maps, their types – Political, Physical etc., and related characteristics are explained in detail. The standard colour/shading schemes and other illustration techniques used in maps to represent different geographical features, physical resources and assets are also analysed and explained in a simple and easy to understand manner.

316/V-5	Mechanism of Monsoon	–	–	Hindi & Eng.	–	–
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The video programme seeks to explore the complex phenomenon of monsoon its characteristics and the influencing factors. The crucial role of Jet Stream, Southern Oscillation and El-Nino in the mechanism of monsoon are also explained.

Economics (318)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
318/V-1	Money Supply	The Government and the Indian Economy	22	Hindi & Eng.	20.20	26.30

This programme deals with the supply of money in a state. The need and importance of money, role of the RBI (Reserve Bank of India) and its functions, control over the supply of money in the market, control of the commercial banks, their deposits and lending activities have been clearly explained. This programme enhances students understanding of the topic which is also contained in the course material.

Business Study (319)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
319/V-1	Planning – An Element of Management	Management of Business	12	Hindi & Eng.	15.00	14.28

This programme deals with how to plan business activities and implement them so as to reach the satisfactory level of achievement. This programme shows how planning is important to almost anyone in society starting from a school boy to business man. This programme shows how planning involves establishing objectives, identifying alternatives, evaluating the alternatives and choosing the best among them for implementation in a systematic way.

319/V-2	Motivation	Management of Business	1/1	Hindi & Eng.	15.00	15.00
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This programme is about motivation. It defines motivation, establishes the need for motivation and also shows how to motivate people. This programme also talks about self motivation.

Psychology (328)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
328/V-1	Little People on the Move	Human Development	12	Hindi & Eng.	18.00	21.00

This programme on the subject of Psychology is prepared for learners at the Senior Secondary level. It aims to give a thorough exposition on growth and development of a child through suitable visuals, interviews, supplemented with computer graphics, expert opinion etc.

328/V-2	Adolescence	Human Development	15	Hindi & Eng.	26.00	26.00
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This programme deals with the subject of Psychology and depicts various factors and changes associated with adolescence. The physiological changes and its effects on an adolescent boy or girl are well explained by a psychologist.

328/V-3	The Mysteries of Human Behaviour	Fundamental of Behaviour	3	Hindi & Eng.	17.00	17.00
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This programme deals with the subject of Psychology and explains the human brain, the nervous system and its functioning. The cause – effect relationship between a person's behaviour and his surroundings is effectively brought out in the programme. Different moods of happiness, sorrow etc., are effectively expressed through the medium of mime.

VIDEO PROGRAMMES FOR VOCATIONAL COURSES

Carpentry (252)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
252/V-1	Carpentry	–	–	Hindi & Eng.	13.40	13.35

This programme depicts the ancient art of carpentry or working with wood. Produced with live visuals, this programme throws light on all aspects of wood work, like the selection of wood and the tools used such as hammers, chisels, nails, etc. This programme shows the process of making furniture like sawing chiselling, boring etc. The programme ends with examples of readymade furniture, which are parts of everyday life.

Engineering & Technology (253)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
253/V-I	Solar Energy Technician	–	–	Hindi & Eng.	12.00	11.52

This programme acquaints the viewers with what solar energy is and in how many ways solar energy can be utilised for the benefit of mankind. This programme highlights production, maintenance and working of various devices that work on solar energy, like solar cooker, solar dryer, domestic and industrial water heaters. This programme describes in detail the working and maintenance of a solar distillation plant and solar photovoltaic lighting system. The concluding part of the programme describes in detail the working of solar water pumping and maintenance of batteries required for solar photovoltaic lighting system.

253/V-2	Bio-Gas Technician	–	–	Hindi & Eng.	13.30	14.10
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This programme opens with a view of a Biogas plant and the materials used for producing the gas. The programme systematically highlights the types of Biogas plants, their installation, production and maintenance. The concluding part of the programme highlights some appliances, which run on Biogas like biogas burner and biogas bulb.

Secretarial Practice (326/426)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
326/V-1	Office Automation	–	–	Hindi & Eng.	18.22	18.30

This programme aims to familiarize the viewers on Personal Assistant/Personal Secretary, about the working/operations of various equipment of common use in an office situation i.e. fax machine,

photocopier, computer, dictaphone etc. This programme also shows how an office secretary does her/his daily routine job and what responsibilities he/she has to carry out.

Agriculture (351)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
351/V-1	Plant Protection	–	–	Hindi & Eng.	11.50	11.45

This programme focuses the attention of viewers on the diseases of plants and the methods to protect them by using different types of medicines. This programme uses a discussion between a teacher and a student. The discussion focuses on fungi, its harmful effects and solution.

351/V-2	Water Management	–	–	Hindi & Eng.	12.35	13.30
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This programme depicts four different methods of irrigation commonly used in India. This programme shows irrigation is dependent on type of soil and crop. This programme also displays a model for water management.

351/V-3	Mushroom Production	–	–	Hindi & Eng.	22.00	21.50
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This programme on Mushroom Production is based on a vocational course in Agriculture. It has been developed as an effective teaching/training aid for learners. The various stages/procedures involved in production of mushrooms and material facility required at each stage have been covered through live shots at Government Oyster Mushroom Production Centre. The advantages of Mushroom Production and its importance as a village-based cottage industry have also been depicted.

361/V-1	Poultry Farming	–	–	Hindi & Eng.	20.50	20.53
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This programme on Poultry Farming is based on a vocational course in Agriculture. It has been developed as an effective teaching/training aid for learners. This programme depicts latest technologies used for breeding, nutrition, feeding and preservation of poultry and provides inputs on measures to control diseases. The programme provides basic information to the students and other interested persons in this area of applied science.

Home Science (359)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
359/V-1	Play Time is Fun Time	–	–	Hindi & Eng.	13.47	13.40

This programme deals with why play is essential in the growth of children. The programme shows how play time develops them physically and mentally and enhances their communication skills. The programme also shows how play time develops sportsman spirit and mutual understanding among children.

359/V-2	How to Organise a Play Centre	–	–	Hindi & Eng.	13.58	14.00
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This programme highlights a real situation at a children’s play centre. Besides demonstrating the setting up and organisation of a play centre the programme highlights how to take care of children’s physical needs, nutritional needs, safety and security. The importance of supervision of children during play and the need of guidance in development of interpersonal relationships have been described in the programme.

359/V-3	Tie & Dye	–	–	Hindi & Eng.	18.28	18.28
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The video programme showcases the famous products and techniques of the traditional craft of Tie and Dye. Popular specimens of tie and dye such as lahariya dupattas, saris etc., being made by Rajasthani craftsman in traditional setup forms the highlight of the video programme. Basic techniques used in creating wonderful patterns of tie and dye as Marbling, Binding, Pleating, Smocking, Knotting etc., are effectively demonstrated by an expert craftsman. The business potential of tie and dye products is highlighted as shots of shops selling tie and dye products to eager buyers fill up the screen.

Library Science (436)

Prog. code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
436/V-1	Library & Society	–	–	Hindi & Eng.	18.30	19.00

This programme describes different types of functions of the libraries and highlights services provided by the libraries. This programme makes it clear that the libraries are not only store-houses of knowledge but also serve the purpose of communication within the society. In addition to it the role of libraries in promoting literature and culture has been highlighted in the programme.

Teacher Training (441)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
441/V-1	Organizing an ECE Centre	Physical Facilities and Learning Material, Mobilizing Community Support	11,13	Hindi & Eng.	12.30	12.02

This programme shows in detail the essential requirements for successful running of an Elementary Child Education (ECE) centre. An actual ECE centre being run in an efficient manner providing a happy and healthy learning environment for the children has also been shown in the programme.

Computer Science (711)

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
711/V-1	Fundamentals of Computer	–	–	Hindi & Eng.	10.00	10.00

This programme is meant for beginners. It gives them an idea of what a computer is and what its functions are. The programme also highlights the use of computers in different organisations like Railways, Airports, Passport Office, Banks etc. Various forms of computer-based communication systems like E-mail, Internet, LAN etc., are also depicted in the programme.

711/V-2	Your First E-mail	–	–	Hindi & Eng.	16.30	17.20
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Basic objective of this Video Programme is to create and send a new e-mail, view and save message check for antivirus.

616/V-1	Common Hardware Problems	–	–	Hindi & Eng.	19.17	19.17
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Basic objective of this Video Programme is to get familiar with component based errors, diagnose the errors in case of any failure and trouble shoot them. This programme also identify different types of precautionary measures at the time of the troubleshooting.

VIDEO PROGRAMMES ON NIOS

Prog. Code	Title	Module	Lesson No.	Language	Duration in Minutes	
					in Hindi	in Eng.
NIOS/V-1	Reaching the Un-reached	–	–	Hindi & Eng.	25.00	25.00

This programme highlights the role being played by the NIOS in the Open Schooling sector, the role of the Co-ordinator of the NIOS Study Centres, useful information for admission seekers to the National Institute Open Schooling, people working in non-formal education sector etc. The film depicts the salient features of the Open Schooling system being followed by the NIOS.

NIOS/V-2	A School for the Masses	–	–	Hindi & Eng.	26.55	26.15
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This is a documentary programme about National Institute of Open Schooling (NIOS). The programme deals with the working process of NIOS, its schemes and mode of learning which makes it different

from other learning modes. The Human Resource involved in implementing various stages i.e. curriculum development, course material printing and dispatch, admission and organising examinations, evaluation etc. are shown in the programme. The programme effectively portrays all aspects of the NIOS.

NIOS/V-3	Sun Rise at Every Door Step	–	–	Hindi & Eng.	20.55	21.24
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This programme depicts the distinguishing features of an Open Learning System. This programme also shows how people who cannot avail schooling under formal system have benefited through Open and Distance mode of learning.

NIOS/V-2	The Role of Coordinator	–	–	Hindi & Eng.	28.55	28.45
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This programme highlights the managerial duties and function of a coordinator of a study centre of the NIOS through enactment of real life situations that a coordinator of a study centre has to face in carrying out his/her duties.

VIDEO PROGRAMMES ON GENERAL TOPICS

Gen/V-1	Reading Skill	–	–	Hindi & Eng.	13.48	15.00
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This programme presents a lively enactment of a classroom situation involving a class teacher and his/her students. The classroom interaction between the students and the teacher brings out clearly the efficacy of various reading techniques, enabling the readers to gain a better understanding of the subject matter being read.

Gen/V-2	Aparna Ka Janam	–	–	Hindi	28.23	–
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This programme in a drama format depicts the story of Aparna, a lady doctor. The story of Aparna unfolds through a series of flashbacks revealing how Aparna on her birth was almost killed by her parents in active connivance with her bua (aunt), as they did not want another girl child. The child however is saved in the nick of time by a village mid-wife, who raises Aparna as her own daughter. Years later, the same relative – her bua is treated by Aparna, who operates on her and saves her life. The relative and the parents of Aparna begs for forgiveness as they learn the truth. The programme is a telling commentary on the prevalent gender bias and discriminations against a girl child in a male dominated society like ours.

Gen/V-3	The Genius of India	–	–	Hindi & Eng.	33.00	28.00
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This programme is based on an essay titled “The Renaissance in India” written by Sh. Aurobindo, the great Indian philosopher and thinker. Sh. Aurobindo’s ideas on the specific Genius of India, its

characteristic soul, the need to rediscover the ancient spiritual knowledge and experience of India for an original dealing with the present day scenario are cogently represented in the programme. There is a striking mix of visual, sound and commentary in the programme.

Gen/V-4	Question Bank	–	–	English	–	28.49
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This programme is about the preparation and implementation of Question Bank. In Open Learning system Q.B. plays a vital role to judge the ability of students. In this programme various factors in the development of a good Question Bank have been well explained by an expert. Types of question i.e. long answer type, short answer type and objective types are also explained. The programme is very useful for development of Question Paper and ability test paper.

Gen/V-5	Chhau	–	–	English		28.20
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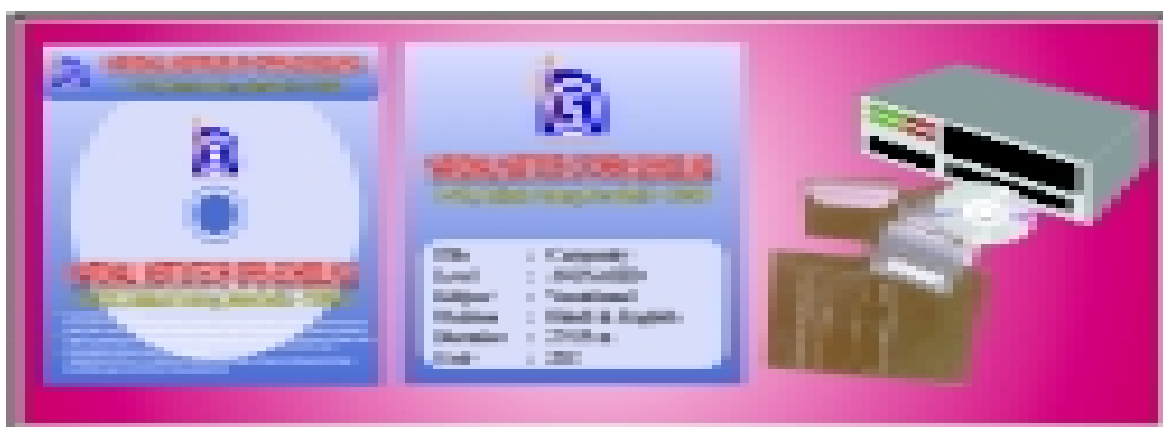
This programme is a recording of the “Chhau dance” the world famous folk dance form of Jharkhand. This dance is performed by the NIOS learners belonging to the same region.

Gen/V-6	Ankor: City of Hindu Buddhist Temples	–	–	Hindi & Eng.	16.00	16.45
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This programme features the ancient city of Ankor Vat in Cambodia, famous for its beauty and much acclaimed Hindu and Buddhist Temple. The programme is based on research and field work. More than 40 photographs have been taken on location. The aim of the programme is to show the great historic works of art and architecture from South East Asian countries which show strong influence of contemporary Indian style and practices.

Gen/V-7	Tolerance	–	–	Hindi & Eng.		
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The video programme effectively portrays enactments of commonplace scenes at home and offices, to bring out in a clear manner the virtues of being tolerant in our dealing of daily life.



SALE OF AUDIO/VIDEO CASSETTE & CD'S

Most of the audio and video programmes are now available on audio cassettes and VCDs for sale @ Rs.40/-per audio cassette and @ Rs.100/- per VCD. A list of audio/video programmes available for sale is given at Annexure 1. Please send requisition for these programmes to the following alongwith a demand draft in favour of the **Secretary, National Institute of Open Schooling, New Delhi.**

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List of Audio Cassettes available for Sale

Sl. No.	Audio Programmes	Level	Subject
1.	<ol style="list-style-type: none"> 1. Suno Kahani Sunao Kahani 2. Sahi Dhang Se Sahi Bolna 3. Sune Dhyan Se Kare Dhyan Se 4. Jane Bujhain Kare Sawal 5. Kaise Kare Sawal 6. Kya Kathan Kya Varnan 7. Mira Ki Chuppi 8. Zara Likh Lijiye 	OBE	Hindi
2.	<ol style="list-style-type: none"> 1. Tel Ki Dhar 2. Wohh Mani Hai Santosh 3. Jhagare Kyon 4. Platform 5. Bhashan (Speech) 6. Samachar Bulletin (News) 7. Durbhash (Telephone Conversation) 	Secondary	Hindi
3.	<ol style="list-style-type: none"> 1. Durghatna (Drama) 2. Kalpana Khel (Game) 3. Uchcharan (Pronunciation) 4. Sangam, Anutan aur Balaghath (Intonation etc.) 5. Kahani (Story) 6. Bhoomika Nirwah (Role-Play) 7. Varnan (Description) 8. Ankhon Deha Hal 	Secondary	Hindi
4.	<ol style="list-style-type: none"> 1. A Telephone Conversation 2. A Conversation on Favourite Pastimes 3. Announcements in Examination Hall 4. Asking for Directions 5. Announcement at Public Places 6. The Bag 7. A Report on the Nine Day Meditation Camp at Tihar Jail 8. An Introduction to Dr. Kiran Bedi: The Wonder Women 9. Each One Teach One 10. Cricket Star Kapil Dev 11. A Quiz on Cricket 12. Instructions on How to Fill a Money Order Form 	Secondary	English
5.	<ol style="list-style-type: none"> 1. Introduction, Two Geniuses 2. Caring for others 3. Inviting People 4. Taking & Conveying Messages 5. Formal & informal Styles in Speech 6. A Visit to Delhi 7. Looking after Puppy 8. Two Songs: i) Let's wipe the tears, ii) Two wings to fly 	Sr. Sec.	English

List of VCDs available for Sale

Sl. No.	Video Programmes	Level	Subject
1.	1. Jab Ek din Calender Bola 2. Urdu Hai Jiska Naam	Secondary	1. Hindi 2. Urdu
2.	1. Real Number 2. Integers	Secondary	Mathematics
3.	1. Rational Number 2. Statistics	Secondary	Mathematics
4.	1. Statistics through Graphs 2. Trigonometry an Introduction	Secondary	Mathematics
5.	1. Banking System 2. Profit and Loss	Secondary	Mathematics
6.	1. Area 2. Height & Distance	Secondary	Mathematics
7.	1. Lines and Angles 2. Congruency & Similarity	Secondary	Mathematics
8.	1. Circle 2. A Quadrilateral	Secondary	Mathematics
9.	1. Volume and Surface Area 2. Pythagorus Theorem	Secondary	Mathematics
10.	1. Triangles 2. Algorithm & Flow Chart	Secondary	Mathematics
11.	1. Electromagnetism 2. Computer an Introduction	Secondary	1. Science & Technology 2. Mathematics
12.	1. Geometry Around Us 2. Motion of Molecules	Secondary	1. Mathematics 2. Science & Technology
13.	1. Archimedes' Principle 2. Tele-Communication	OBE/ Secondary	Science & Technology
14.	1. Simple Machine 2. Communication	OBE/ Secondary	Science & Technology
15.	Our Food	Secondary	Science & Technology
16.	1. Pendulum 2. Description of Motion	Secondary	Science & Technology

17.	1. Skeleton Muscles and Movement 2. Human Reproduction	Secondary	Science & Technology
18.	1. Energy 2. Nuclear Energy	Secondary	Science & Technology
19.	1. Man & Environment 2. Utilisation and Management of Natural Resources	Secondary	1. Science & Technology 2. Social Science
20.	1. Material Around Us 2. Lets Measure Length	Secondary	Science & Technology
21.	1. Universe 2. Atmospheric Pressure	Secondary	Science & Technology
22.	1. Wonders of Radio Activity 2. Electric Current	Secondary	Science & Technology
23.	1. Animal Husbandry 2. Agricultural Practice	Secondary	Science & Technology
24.	Cultural Heritage of India	Secondary	Social Science
25.	Religions of India	Secondary	Social Science
26.	1. Population, Environment & Quality of Life 2. Contribution of Ancient Civilization 3. Interaction between Man & Environment	Secondary	Social Science
27.	1. Nosy Affair 2. Introducing Yourself in Different Situation 3. Reading Skills	Senior Secondary	English
28.	Co-ordinate Geometry-I	Senior Secondary	Mathematics
29.	Co-ordinate Geometry-II	Senior Secondary	Mathematics
30.	1. Mechanical Energy 2. Surface Tension	Senior Secondary	Physics
31.	1. Rate of Chemical Reaction 2. The Mole Concept	Senior Secondary	Chemistry
32.	Respiration in Human	Senior Secondary	Biology
33.	1. Migration 2. The Mysteries of the Interior Earth	Senior Secondary	Geography

34.	1. Nature and Scope of Business 2. Business Around Us	Senior Secondary	Commerce/ Business Studies
35.	1. Motivation 2. Self-Employment	Senior Secondary	Commerce/ Business Studies
36.	Money Supply	Senior Secondary	Economics
37.	1. Bio-Gas Technician 2. Solar Energy Technician	Vocational	Engineering & Technology
38.	1. How to Organise a Play Centre 2. Play Time is Fun Time	Vocational	Home Science
39.	1. Plant Protection 2. Water Management	Vocational	Agriculture
40.	Mushroom Production	Vocational	Agriculture
41.	Poultry Farming	Vocational	Agriculture
42.	1. Library and Society 2. Fundamental of Computer	Vocational	1. Library Science 2. Computer Science
43.	Reaching the Un-reached	General	NIOS
44.	Genius of India	General	General
45.	Carpentry	Vocational	Carpentry