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**MSM-523-B**

**Electronic Media (Special paper -1)  
RADIO**



**Guru Jambheshwar University of Science &  
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<b>SUBJECT: ELECTRONIC MEDIA (SPECIAL PAPER-1) RADIO</b>	
<b>COURSE CODE: MSM-523 B</b>	<b>AUTHOR: DR. SHIPRA DUA</b>
<b>LESSON NO.: 1</b>	
<b>HISTORY AND DEVELOPMENT OF RADIO IN INDIA</b>	

## **STRUCTURE**

- 1.1 Learning Objectives
- 1.2 Introduction
- 1.3 The story of broadcasting in india
  - 1.3.1 Pre -independence story
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- 1.7 Self-Assessment Test
- 1.8 Answers to Check Your Progress
- 1.9 References/Suggested Readings

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## **LEARNING OBJECTIVES**

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After reading this lesson you will be able to:

- To understand the origin and development of radio broadcasting in India.



- To examine the role of radio in India's social and cultural growth.
- To assess the contribution of All India Radio in nation-building.
- To study the impact of liberalization and privatization on radio broadcasting.
- To explore the future prospects and challenges of radio in the digital era.

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## 1.2 INTRODUCTION

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Electronic technology continues to change and reorganize social interdependence and every facet of human existence. This astounding barrage of information has substantially diminished the sensation of time and space, and has rendered the entire earth into what McLuhan classically term a "Global Village".

—Broadcasting is an agricultural word, meaning —to scatter seeds far and wide. The radio, which was originally called "wireless telegraphy," was, then, shortened to "wireless" by the British. Today, the term radio, almost always, refers to the transceiver or radio chip (over a century of invention). The radio process involves a series of processes (in a technical sense), across various methods and techniques, for the purpose of transmitting information of different modalities. Although the invention of radio should



not be credited to any one inventor; rather, it is the product of the cumulative work of some of the greatest minds of early pioneering scientists, inventors, engineers and capitalist businessmen and, sometimes, the origins and history are contested.

The telegraph, invented by Samuel Morse in 1844, forever changed long distance communication when Morse sent his first message. The telegraph device

was then further enhanced by other inventors.

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## 1.3 The Story of Broadcasting in India: From Sparks to Sound waves

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Once upon a time, long before televisions lit up living rooms and smartphones connected the world, there was a dream—a dream to send messages through the air, to speak across great distances without



wires. This is the story of how that dream took root in the Indian subcontinent and grew into one of the world's largest broadcasting networks: **All India Radio**.

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### 1.3.1 Pre –Independence Story

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#### Whispers through the Ether: The Global Spark

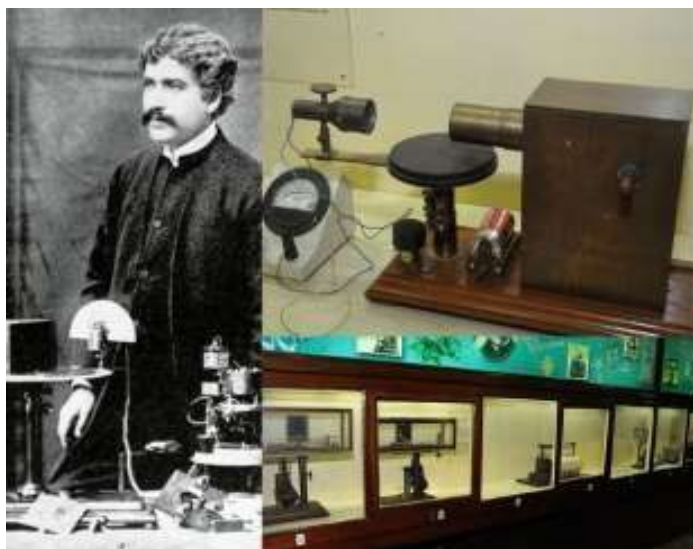
The journey began far from India, in the laboratories of Europe and America, where brilliant minds unlocked the secrets of invisible waves. In 1844, **Samuel Morse** tapped out the first telegraph message, and a revolution began. By 1864, **James Clerk Maxwell** had shown, through mathematics, that electromagnetic waves could travel through space. Years later, **Heinrich Hertz** proved Maxwell right, turning theory into reality.

Inventors like **Nikola Tesla**, **Guglielmo Marconi**, and **Reginald Fessenden** soon joined the race. In 1906, Fessenden made history by broadcasting music and voice over the airwaves—humanity had spoken to itself without wires for the first time.

#### An Indian Visionary: Jagdish Chandra Bose

While the West was buzzing with excitement, an Indian scientist was conducting quiet experiments of his own. **Jagdish Chandra Bose**, with his signature curiosity, used millimeter waves to ignite gunpowder and ring a bell—without touching them. In 1894, in front of a fascinated crowd at Kolkata Town Hall, he demonstrated that invisible waves could pass through walls and carry information. He called this phenomenon **Adrishya Alok**, or **Invisible Light**.

Though he didn't patent his work, Bose laid the groundwork for India's scientific awakening in the field of wireless communication.



#### The First Voice in India's Air



The real story of broadcasting in India began in the 1920s—not with big government initiatives, but with passionate hobbyists. **Amateur radio clubs** in **Bombay, Calcutta, Madras, and Lahore** set up makeshift stations on rooftops, broadcasting music, news, and public talks.

In **1921**, a test transmission beamed from the **Times of India** building in Bombay. By **1923**, the **Radio Club of Bombay** aired its first program, soon followed by Calcutta. The **Madras Presidency Radio Club** joined in 1924, using a humble 40-watt transmitter.

However, dreams need money. Despite limited government support, these early clubs couldn't stay afloat and faded out by 1927.

### **The Rise—and Fall—of a Dream: The Indian Broadcasting Company**

That same year, the **Indian Broadcasting Company (IBC)** was born—a private venture meant to take broadcasting to the next level. But IBC struggled. By 1930, it had gone bankrupt.

Public outcry followed. How could India lose such a powerful new voice? Responding to growing pressure, the **British colonial government** stepped in. On **April 1, 1930**, it took over broadcasting and soon rebranded it as the **Indian State Broadcasting Service (ISBS)**.

### **Akashvani Rises: A Voice from the Sky**

In a small corner of **Mysore**, another quiet revolution was underway. In **1935**, **Dr. M.V. Gopalaswamy**, a professor at Mysore University, started his own radio station using a homemade 30-watt transmitter. He called it **Akashvani**, a Sanskrit term meaning —Voice from the Sky. It was a poetic name, and it stuck.

### **All India Radio( 1936)**

Back in Delhi, under the guidance of **Lionel Fielden**, a former BBC man, Indian broadcasting was restructured. On **June 8, 1936**, ISBS was renamed **All India Radio (AIR)**—a name destined to echo across generations.

Stations sprang up—**Lucknow, Madras, Delhi**—each equipped with stronger transmitters and better programming. By 1939, with the **Second World War** raging, AIR became a critical tool for broadcasting multilingual news bulletins across the subcontinent. English, Hindustani, Tamil, Bengali,



Pashto, and more filled the air.

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### 1.3.2 Post Independence Story

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#### 1947: When India Found Its Voice

Midnight struck on August 15, 1947 — and with it came a moment generations had fought for. As India stepped into independence, a single voice echoed across the country.

Millions were glued to their radios, listening as **Jawaharlal Nehru** spoke to a free nation for the first time. His words — “*At the stroke of the midnight hour...*” — weren’t just symbolic. They were heard live, broadcast by **All India Radio (AIR)**. For many, it was the first time they truly felt connected to something bigger: the beginning of a new India.

But freedom came with its own upheaval. The trauma of **Partition** split not just communities and families, but also the very infrastructure India depended on. Major radio hubs like **Lahore, Peshawar, and Karachi** were now across the border — in Pakistan. What remained in India was just a small fraction of the original radio network.

#### Piecing the Airwaves Back Together (1947–1950)

In the early days after independence, there was a quiet but determined push to rebuild what was lost. **Sardar Vallabhbhai Patel**, then heading the Information and Broadcasting ministry, understood that if India wanted to come together as a nation, it needed a way to speak to itself — and to listen.

New radio stations popped up in places like **Nagpur, Vijayawada, and Amritsar**, powered by low-range transmitters but high hopes. In just three years, the number of broadcasting stations jumped from 6 to 25.

A **training center** was set up in 1948 to prepare new radio professionals, and India even launched its

**External Services Division** — taking its stories and songs to the wider world.

#### Entertainment Finds Its Voice: Vividh Bharati is Born

By the mid-1950s, All India Radio was facing a problem. While it had the reach, it didn’t have the spark



— at least, not the kind that kept everyday listeners glued to their radios. People were turning the dial to Radio Ceylon instead, where film songs and lively banter ruled the airwaves. In 1957, **Vividh Bharati** was launched, and it changed everything. Suddenly, Indian radio wasn't just formal announcements and classical music. It had **popular film tracks, light comedy, short radio plays, and celebrity interviews**. The content felt alive — warm, familiar, and fun.

Broadcasting from dozens of centers across the country, Vividh Bharati quickly found a home in both big cities and rural villages. It wasn't just radio anymore — it was commercial Radio. It was the sound of India laughing, singing, and storytelling.



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### 1.3.3 All India Radio Today (Still Speaking, Still Listening)

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Today, All India Radio is still very much a part of Indian life. It speaks in dozens of languages, reflects countless cultures, and reaches deep into corners of the country that even smartphones struggle to touch.

But it hasn't stayed stuck in the past. All India Radio is now online, on FM, and even on mobile apps. Whether you're on a farm in Punjab, a train in Mumbai, or scrolling your phone in Bangalore — the voice is still there.

From the early scientific work of **J.C. Bose**, who first played with the idea of sending messages without wires, to the sprawling Akashvani network we know today, Indian radio has always been more than just technology. It's been a mirror to the nation, a bridge between people, and a storyteller passing





its voice from one generation to the next.

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## 1.4 Summary

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Electronic technology has reshaped human communication, transforming the world into what Marshall McLuhan called a —Global Village.‡ The term *broadcasting* originally meant —to scatter seeds,‡ a fitting metaphor for how radio spread information across vast distances. The invention of radio was a collective achievement of many scientists, including Samuel Morse, James Clerk Maxwell, Heinrich Hertz, Nikola Tesla, Guglielmo Marconi, and Reginald Fessenden.

In India, the roots of broadcasting trace back to **Jagdish Chandra Bose**, who demonstrated wireless transmission in 1894. His pioneering work laid the foundation for India's journey into radio communication. The first radio experiments in India began in the **1920s** with amateur clubs in Bombay, Calcutta, and Madras broadcasting news and music. However, these early ventures struggled financially and soon faded.

In **1927**, the **Indian Broadcasting Company (IBC)** was established but collapsed within three years. The British government took control and formed the **Indian State Broadcasting Service (ISBS)** in 1930. A few years later, in **1936**, it was reorganized as **All India Radio (AIR)** under the guidance of Lionel Fielden. Around the same time, **Dr. M.V. Gopalaswamy** launched *Akashvani* in Mysore, a name that later became synonymous with Indian radio.

During **World War II**, AIR became a crucial source of news in multiple languages. The most iconic moment came in **1947**, when **Jawaharlal Nehru's**

—**Tryst with Destiny**‡ speech was broadcast across the newly independent India. However, the Partition disrupted broadcasting infrastructure, forcing India to rebuild its network rapidly.

Between **1947 and 1950**, the number of AIR stations expanded from 6 to 25. A training centre was established, and India's **External Services Division** began broadcasting internationally. To counter Radio Ceylon's popularity, **Vividh Bharati** was launched in **1957**, bringing entertainment, film music, and popular culture to Indian listeners and marking the birth of commercial radio.

Today, **All India Radio (Akashvani)** remains a vital medium that connects the nation through its multilingual, multicultural content. It has evolved with time — now available on **FM, online platforms,**



**and mobile apps** — yet it continues to serve as India's collective voice, echoing its stories, diversity, and spirit across generations.

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### 1.5 Keywords

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**Global Village** – Marshall McLuhan's concept **Broadcasting** – —to scatter seeds far and wide **Samuel Morse** – Telegraph invention (1844) **Nikola Tesla & Guglielmo Marconi** – Radio pioneers

**Reginald Fessenden** – First voice and music broadcast (1906)

**Lionel Fielden** – Reorganized AIR, former BBC official **World War II** – Multilingual news broadcasts

**Jawaharlal Nehru** – —Tryst with Destiny speech (1947) **Partition (1947)** – Loss of key radio stations to Pakistan

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### 1.6 Check your Progress

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- Q.1 What does the term —broadcasting originally mean, and how is it connected to radio?
- Q.2 Who first invented the telegraph, and why was it a turning point in communication history?
- Q.3 Explain the contribution of James Clerk Maxwell and Heinrich Hertz to the development of Radio.
- Q.4 Who were the key global inventors associated with the invention of radio?
- Q.5 Describe the role of Jagdish Chandra Bose in the development of wireless communication in India.

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### 1.7 Self-Assessment Test

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#### A. Multiple Choice Questions (MCQs)

1. What does the term *broadcasting* originally mean?
  - a) Sending news globally
  - b) Scattering seeds far and wide
  - c) Wireless telegraphy



- d) Music transmission
2. Who first sent a telegraph message in 1844?
- a) Nikola Tesla
  - b) Jagdish Chandra Bose
  - c) Samuel Morse
  - d) Guglielmo Marconi
3. What was the first Indian city to air a test radio transmission in 1921?
- a) Calcutta
  - b) Bombay
  - c) Madras
  - d) Delhi
4. Who founded **Akashvani** in Mysore in 1935?
- a) Lionel Fielden
  - b) Dr. M.V. Gopalaswamy
  - c) Jagdish Chandra Bose
  - d) Sardar Vallabhbhai Patel
5. Which All India Radio service was launched in 1957 to entertain listeners with film songs and light programs?
- a) AIR National Service
  - b) Vividh Bharati
  - c) External Services Division
  - d) ISBS

### B. True/False Questions



- Jagdish Chandra Bose patented his experiments in wireless communication. (T/F)
- Indian Broadcasting Company (IBC) succeeded and became AIR. (T/F)
- Vividh Bharati was launched to compete with Radio Ceylon. (T/F)
- All India Radio broadcasts only in English. (T/F)
- Samuel Morse's invention of the telegraph preceded radio by several decades. (T/F)

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## 1.6 Answers to check your Progress

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### A. Multiple Choice Questions (MCQs)

1. b) Scattering seeds far and wide
2. c) Samuel Morse
3. b) Bombay
4. b) Dr. M.V. Gopalaswamy
5. b) Vividh Bharati

### B. True/False Questions

**False** – Bose did not patent his experiments.

**False** – IBC failed, and the British government formed ISBS, later AIR.

**True** – Vividh Bharati was launched to compete with Radio Ceylon.

**False** – AIR broadcasts in multiple languages.

**True** – Morse's telegraph came decades before radio.

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## 1.9 References

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All India Radio (AIR). (n.d.). *Akashvani: History and Milestones*. Ministry of Information & Broadcasting, Government of India.

Fielden, L. (1936). *All India Radio: Its Organization and Development*. London: Oxford University Press.



Gopalaswamy, M.V. (1935). *Akashvani – Radio Experiments in Mysore*. Mysore University Archives.

Vividh Bharati Division, All India Radio. (n.d.). *Program History and Development*.

Information and Broadcasting Ministry, Government of India. (1947–1950). *Post-Independence Radio Infrastructure Reports*.

Nehru, J. (1947). —Tryst with Destiny.‡ Broadcast, All India Radio, 15 August 1947.

Kumar, R. (2010). *Broadcasting in India: From Wireless to Digital*. New Delhi: Sage Publications.

### Weblinks

<https://www.indianbroadcastingworld.com/dd-news-air-emerge-highly-trusted/>

<https://prasarbharati.gov.in/air-news/>

<https://iasbaba.com/2017/12/india-radio-air-credibility-media/>

<https://www.tec.gov.in/pdf/Studypaper/Study%20Paper%20on%20Digital%20Radio%20Technology,%20April%202025.pdf>

<https://www.rfwireless-world.com/terminology/radio-broadcasting-advantages-disadvantages>

<https://www.aplustopper.com/radio-advantages-and-disadvantages/>



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<b>LESSON NO.: 2</b>	
<b>REACH AND ROLE OF RADIO AS A MASS MEDIUM</b>	

## **STRUCTURE**

2.1 Learning Objectives

2.2 Introduction

2.3 Radio as a Mass Medium

2.3.1 Objectives of Radio

2.3.2 Strengths of Radio as a Mass Medium

2.3.3 Limitations of Radio as a Mass Medium

2.3.4 Future of Radio in India

2.3.5 Relevance of Radio in Today's Context

2.4 Summary

2.5 Keywords

2.6 Check your progress

2.7 Self-Assessment Test

2.8 Answers to Check Your Progress

2.9 References/Suggested Readings

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### **2.1 Learning Objectives**

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- To Understand the Role of Radio in Mass Communication



- To Learn the Strengths and Limitations of Radio
- To Appreciate the Relevance of Radio Today
- To Examine Radio's Role in Development and Social Change
- To Explore the Future of Radio in India

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## 2.2 Introduction

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Radio is one of the most powerful and enduring forms of mass communication. It has played a significant role in disseminating information, education, and entertainment to a wide audience for decades. Despite the emergence of television, the internet, and digital platforms, radio continues to remain relevant because of its accessibility, affordability, and ability to reach even the remotest corners of a country.

Mass media acts as a bridge between people and authorities, and radio has historically been one of the most widely used media for instant communication. Radio signals have the ability to cover almost the entire world, making radio an efficient tool for spreading information quickly and effectively. In India, more than 177 radio stations operate across the country, reaching nearly **97% of the population**.

The advent of transistors revolutionized radio broadcasting, making it a truly portable and affordable medium. Today, radio serves as a convenient source of entertainment and information for both urban and rural populations. Its portability makes it unique among mass media – listeners can tune in at home, in offices, cars, or even outdoors. Now a days people are listening radio on various digital platforms .

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## 2.3 Radio as a Mass Medium

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Radio is one of the most powerful and influential forms of mass communication. As a medium, it has the unique ability to reach a wide and diverse audience regardless of literacy, location, or socio-economic background. Unlike print or television, radio uses the power of sound, voice, and music to convey information, educate listeners, and entertain the masses in an engaging and imaginative way.

Being an aural medium, radio communicates primarily through spoken words, music, and sound effects, creating vivid imagery in the listener's mind. This "theatre of the mind" quality makes it particularly



effective in storytelling and information dissemination. Radio transcends barriers of geography and language, reaching even the remotest areas where other forms of media may not be accessible

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### 2.3.1 Objectives of Radio

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- **To inform** – radio informs the people through News, talks , and discussions. People get information on various topics or surroundings. For example ; if you are going to office and you want to know about traffic .Then radio informs you about traffic
- **To educate** – Radio educates via its programs . so that who are not able to go to school they can be educated through radio . Radio is a powerful medium for distance education and awareness campaigns. For example ; gyanvani 105.6 broadcasts the programs on various subjects like ganit ke pahade . community radio also broadcasts programs to educate people .
- **To entertain-** Radio entertains with music . private radio broadcasts pranks to entertain people .so that if you are tired, exhausted or stressed then radio plays pranks, music to entertain people . it provides healthy entertainment to people .

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### 2.3.2 Strengths of Radio as a Mass Medium

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1. **Imaginative Engagement:** Radio allows listeners to create their own stories via words, stimulating imagination through sound. We all know the story of sanjay in mahabharat who narrated the story of war to king dhritrashtra who could not see the battle of kurukshetra . Just like Sanjaya's narration lets Dhritrashtra mentally visualize Kurukshetra, **radio allows listeners to imagine scenes through sound, voices, and effects**. Rather if RJ is in mela and he can make the audience imagine of the scene of the Mela.
2. **Instant and simple medium** – radio is an instant mass medium . it can be heard by the listeners as radio jockey speaks in studio unlike tv. As television production is complicated in comparison of radio production.
3. **Cost-Effective & Wide Reach:** Radio receivers are inexpensive and widely available. That's why radio's reach is considered wide. Radio reaches to 97 per cent of the population. Radio covers large audiences, including remote rural areas where other media might not penetrate.





4. **Portability:** It is a non-visual, portable medium that can be accessed virtually anywhere allowing listeners to stay connected while performing daily tasks. For example if people are sitting and talking even then they can listen radio. If a woman is cooking food even then she can listen radio
5. **Language Adaptability:** Knowledge of local languages is essential, allowing it to connect with diverse communities. It serves dialects also so that people can get information even in remote areas .
6. **Authenticity:** AIR's credibility as a news provider makes it widely trusted. (Private stations are generally not permitted to broadcast news.). Radio news is considered most authentic . rather radio is also considered standard bench mark for accuracy of language and authenticity of information.
7. **Variety for everyone** – radio serves variety of content to suit different age groups, including programs for seniors, children, and young listeners. It serves various formats like music programs , spoken programs like talk , discussions and informative interviews and so on .
8. **No limitation of literacy** - It does not require literacy or visual attention, making it inclusive for all sections of society. For example if somebody doesn't know reading then they can listen radio and get the information.
9. **Disaster Management** It informs people about evacuation plans, safe shelters, and emergency contacts, often faster than other media. For example , Government uses radio at the time of flood , war situation . as radio reaches to remote areas where internet and television cannot reach . In 2004 at the time of Tsunami Community radio and AIR stations broadcast warnings and updates to coastal communities. In 2013 at the time of Cyclone Phailin in Odisha, AIR and FM stations informed villagers about evacuation plans, saving thousands of lives. In 2020-2021 at the time of COVID-19 Pandemic Radio shared health advisories, vaccination information, and local updates, especially in areas with limited internet access.
10. **Specialized Programming:** Radio can address niche audiences through specialized programs and local content. For example ; All India Radio plays special music shows, talk shows for senior citizens. Special programs can be especially produced for women . krishi vani is special



meant for farmers .

11. **Community Engagement:** Many radio stations promote local events, initiatives, and concerns, fostering community bonding. Community radio especially caters to the needs of people in remote areas. It raises awareness about institutional mechanisms and informs people about their rights, often through targeted awareness campaigns.¶

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### 2.3.3 Limitations of Radio as a Mass Medium

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Audio-only format limits presentation of complex or visual information; broadcasts are transient unless recorded; competition from TV, internet, and social media; and listeners may give only partial attention while multitasking

1. **Audio-Only Medium:** Lack of visuals can limit the communication of complex information. Sometimes visuals are needed to feel the information . For example, the news about the covid in 2020-21 . Radio news talked about the number of covid affected people , the number of deaths, details about the infection etc. However in the case of television, it showed the actual situation of hospitals in the country, visuals of people using masks, and many more details which could be seen. Now compare the two. A natural disaster like a covid when seen on television is more effective than what you hear on radio. It is said that —a picture is worth a thousand words¶. It is also said that “seeing is believing“. So when you see something, it is more believable than what you hear. So having no visuals is a major limitation of radio.
2. **Short-Lived Message:** Radio broadcasts are transient; messages are lost if not heard live. When you read a newspaper, you can keep it with you and read it again. You have the printed word there and unless the paper is destroyed it will remain with you. Suppose when you read a news item, you do not understand the meaning of certain words. You can refer to a dictionary or ask someone who knows to find out the meaning.
3. **Competition from Other Media:** Television, internet, and social media compete for audience attention.as social media is also very fast and instantaneous medium. But of course radio is considered more authentic than social media.
4. **Limited Listener Attention:** Listeners may engage in other activities while listening, reducing



full focus. So as attention is being divided so people can skip the important information.

5. **Audience Fragmentation:** With so many stations available, the audience is often spread thin across multiple channels, making it tougher for advertisers or broadcasters to reach a broad, unified audience.

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### 2.3.4 Relevance of Radio in Today's Context

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Radio continues to be a vital medium of mass communication in modern India. **All India Radio (AIR)** operates over 200 stations, providing nearly complete coverage of the population and area. Local stations broadcast region-specific programs that reflect local culture, language, and aspirations. In the North- East, community radio stations cater to diverse linguistic and cultural needs, providing a voice to communities in remote areas.

AIR has adopted modern technology, including digital recording, editing, and satellite uplinking, to enhance quality and operational efficiency. Today, AIR uses **INSAT satellites** for national and regional programme distribution and operates 20 channels of sky radio services through Doordarshan's uplinking system.

With the rise of FM stations and private broadcasters, radio has expanded beyond traditional content. Modern radio offers news (where permitted), current affairs, talk shows, interactive sessions, music programmes, interviews, and drama, catering to niche and loyal audiences.

India-specific features: All India Radio (AIR) operates hundreds of stations covering nearly the entire population and offers regional programming that preserves local culture and languages; community radio serves remote and linguistically diverse areas (e.g., the North-East)

- **Accessibility in the form of Community Radio** – Radio remains one of the most accessible and affordable forms of media in India. With over 350 community radio stations across the country, it serves as a crucial platform for disseminating information to rural and marginalized communities . community radios are run by institutions and NGOs . people can participate in community radio . so this way now a days community radio is the popular among people .
- **Digital Transformation:** AIR has modernized with digital recording, editing, and satellite (INSAT) distribution and sky radio channels; FM and private broadcasters have broadened



formats to include music, talk shows, interviews, and niche programming. Additionally, the advent of internet radio and podcasts represents the latest evolution of radio, making it accessible on digital platforms.¶

- **Government Initiatives-** The Indian government has recognized the importance of radio in communication. Programs like "Mann Ki Baat," hosted by Prime Minister Narendra Modi, utilize radio to address the nation on various issues, fostering a direct connection with the public
- **Social Role:** radio supports development campaigns (agriculture, health, literacy), mobilizes communities, issues emergency alerts, and helps preserve cultural heritage, keeping it relevant for India's diverse population

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### 2.3 .5 Future of Radio in India

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The future of radio will be shaped by technological innovations, regulatory changes, and audience preferences. Key trends include:

- **Growth of FM Broadcasting:** FM is expected to expand further due to its superior sound quality and popularity among younger listeners and office goers listeners as well.
- **Digital and Satellite Radio:** Digital transmission and satellite-based services will improve signal clarity and allow for more channels.
- **Integration with Online Platforms:** Radio will increasingly be available through streaming services, mobile apps, and podcasts, ensuring greater accessibility.
- Radio's adaptability guarantees that it will continue to be a significant medium in the years to come. Future trends: expansion of FM, growth of digital and satellite radio, more localized/niche content, and tighter integration with streaming, mobile apps, and podcasts .

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### 2.3.6 Role of Radio in Development

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Radio has acted as an agent of socio-economic change and cultural preservation. Its contributions include;

- **Cultural Preservation:** AIR has played a major role in promoting Indian classical music and



regional culture through initiatives like *Radio Sangeet Sammelan*.

- **Educational Programming:** Radio has been used extensively for agricultural education, family planning campaigns, and rural development initiatives.
- **Information Dissemination:** It informs citizens about government schemes, policies, and developmental projects, encouraging participation in nation-building.
- **Social Change:** Radio has promoted awareness about gender equality, health, literacy, and civic responsibility, gradually shaping public attitudes.
- **Emergency Communication:** In times of natural disasters or crises, radio remains a reliable medium for immediate alerts and instructions.
- **Community Mobilization:** Farmers, factory workers, and commuters rely on radio for daily updates, making it a constant companion.

Radio continues to occupy a unique place in the media landscape. Its affordability, accessibility, and capacity for instant communication make it one of the most powerful tools of mass communication. From informing and educating to entertaining and mobilizing society, radio has successfully adapted to technological changes and remains an indispensable medium for India's diverse and pluralistic population.

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## 2.4 Summary

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Radio is one of the most **powerful and enduring forms of mass communication**, providing information, education, entertainment, and social engagement. Despite the rise of television, internet, and digital platforms, radio remains relevant due to its **affordability, accessibility, portability, and wide reach**, covering nearly 97% of India's population through over 177 stations.

Radio serves multiple objectives:

**Informing:** News, traffic updates, and public announcements.

**Educating:** Distance learning and awareness campaigns through programs like *Gyanvani* and community radio.

**Entertaining:** Music, pranks, drama, and interactive content.



**Development & Social Awareness:** Promotes health, agriculture, literacy, and civic responsibility.

**Disaster Communication:** Timely alerts during natural disasters like the 2004 Tsunami, 2013 Cyclone Phailin, and COVID-19.

**Cultural Preservation:** Promotes Indian classical music, regional art, and local languages.

**Community Engagement:** Encourages participation and informs citizens about rights and local initiatives.

**Strengths of Radio:** Imaginative engagement, instant communication, cost-effectiveness, portability, authenticity, language adaptability, variety of programs, inclusivity (no literacy required), and specialized content.

**Limitations:** Audio-only format, short-lived messages, competition from other media, divided listener attention, and audience fragmentation.

**Modern Relevance:** Radio has embraced **digital technology, FM stations, online streaming, podcasts, and satellite broadcasting**, remaining a vital medium for urban and rural populations alike. Government initiatives like *Mann Ki Baat* utilize radio to directly reach citizens, reinforcing its social and developmental role.

**Future Prospects:** Expansion of FM and digital radio, integration with online platforms, and growth of localized and niche programming ensure radio's continued significance in India.

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## 2.5 Keywords

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**Mass Communication** – Radio as a tool for informing, educating, and entertaining.

**All India Radio (AIR)** – India's national radio broadcaster.

**Community Radio** – Localized radio serving rural and marginalized communities.

**Portability** – Radio can be accessed anywhere, unlike TV or print.

**Accessibility** – Reaches remote areas and diverse linguistic audiences.

**Distance Education** – Educational programs broadcast via radio (e.g., Gyanvani 105.6).



**Disaster Management** – Radio provides timely alerts during natural disasters.

**Digital Transformation** – Online streaming, FM, satellite, and podcasts.

**Entertainment** – Music, talk shows, drama, and interactive programs.

**Cultural Preservation** – Promotes Indian classical music, regional languages, and local culture.

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## 2.6 Check your Progress

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Q.1 Why is radio considered an enduring form of mass communication in India?

Q.2 Name three main objectives of radio.

Q.3 How does radio reach audiences in remote and rural areas?

Q.4 Explain the role of **community radio** in India.

Q.5 What is the significance of All India Radio (AIR) in Indian broadcasting?

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## 2.7 Self-Assessment Questions

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### A Multiple Choice Questions (MCQs)

1. What is one reason radio remains relevant despite the rise of TV and the internet?
  - a) It requires high literacy
  - b) It is portable and accessible
  - c) It only broadcasts music
  - d) It needs expensive equipment
2. Which radio station in India is the national broadcaster?
  - a) Radio Ceylon
  - b) Vividh Bharati
  - c) All India Radio (AIR)
  - d) Community Radio Delhi
3. Community radio primarily serves:



- a) Urban audiences only
  - b) Rural and marginalized communities
  - c) Television viewers
  - d) International audiences
4. Which of the following is a strength of radio?
- a) Audio-visual content
  - b) Imaginative engagement
  - c) Short attention span
  - d) Audience fragmentation
5. During the 2004 Tsunami, radio helped by:
- a) Providing live TV coverage
  - b) Broadcasting warnings and updates to coastal communities
  - c) Creating movies about the disaster
  - d) Replacing newspapers

### B. True/False Questions

- 6. Radio requires literacy for listeners to understand information. (T/F)
- 7. Digital platforms and podcasts have become part of modern radio. (T/F)
- 8. Radio is only used for entertainment and cannot educate or inform. (T/F)
- 9. FM and satellite radio have improved the reach and quality of broadcasting. (T/F)
- 10. Radio cannot play a role in preserving culture or local languages. (T/F)

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## 2.8 Answers

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### A. Answers Multiple Choice Questions (MCQs)

- 1. b) It is portable and accessible





2. c) All India Radio (AIR)
3. b) Rural and marginalized communities
4. b) Imaginative engagement
5. b) Broadcasting warnings and updates to coastal communities

#### B. True/False Answers

6. **False** – Radio does not require literacy.
7. **True** – Digital platforms and podcasts are part of modern radio.
8. **False** – Radio informs, educates, and entertains.
9. **True** – FM and satellite radio improve reach and sound quality.
10. **False** – Radio preserves culture and local languages through programming.

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## 2.9 References

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- All India Radio (AIR). (n.d.). *About AIR: History and Milestones*. Ministry of Information & Broadcasting, Government of India.
- Kumar, R. (2010). *Broadcasting in India: From Wireless to Digital*. New Delhi: Sage Publications.
- Bose, J.C. (1897). —On the Properties of Electric Waves. *Proceedings of the Royal Society of London*.
- Fessenden, R. (1906). —Wireless Transmission of Music and Speech. *Electrical World and Engineer Journal*.
- Indian Broadcasting Foundation (IBF). (n.d.). *History of Radio Broadcasting in India*. <https://www.ibfindia.com/history-of-radio>
- McLuhan, M. (1964). *Understanding Media: The Extensions of Man*. McGraw-Hill.
- Nehru, J. (1947). —Tryst with Destiny. *Broadcast*, All India Radio, 15 August 1947.



SUBJECT: ELECTRONIC MEDIA (SPECIAL PAPER-1) RADIO	
COURSE CODE: MSM-523 B	AUTHOR: DR. SHIPRA DUA
LESSON NO.: 3	
ORGANIZATIONAL STRUCTURE OF RADIO	

## STRUCTURE

3.1 Learning Objectives

3.2 Introduction

3.3 Organizational structure of Radio

3.3.1 Organizational structure of Public Radio

3.3.2 Organizational structure of Private Radio

3.4 Summary

3.5 Keywords

3.6 Check your progress

3.7 Self-Assessment Test

3.8 Answers to Check Your Progress

3.9 References/Suggested Readings

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### 3.1 Learning Objectives

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- To understand the hierarchical framework of government radio organizations
- To identify key positions and their responsibilities.
- To explain coordination between different departments.
- To analyze the impact of structure on content and audience reach.



- To study structural differences between public and private radio organizations.

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### 3.2 Introduction

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When we talk about the organization of a radio station, there are many designations that every mass communication student should be familiar with. Most people, when they think of radio, only imagine the RJ, but in reality, there are numerous roles within a radio station. To truly understand these roles, it is important to understand the station's organizational structure. But there are two types of radio station . one is government radio station and another is private radio station. Here we will discuss the functionaries of both the stations.

Now, let's take a tour of a Government radio station (All India Radio)

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#### 3.2.1 Organizational Structure of Public Radio Station

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All India Radio (Akashvani) has its headquarters in New Delhi and is headed by a Director General. This is an autonomous corporation of the Ministry of Information and Broadcasting , Government of India. All India Radio (AIR), also known as Akashvani, has a highly structured organization designed to efficiently manage its diverse functions. In All India Radio there are mainly three types of wings . I) Program wing II) Engineering Wing III) Administration Wing. Program wing is responsible for running the broadcast while engineering wing is responsible for technical operations, transmission quality, and maintenance. the administrative wing provides all the support that is required for the functioning of the station.

- I) **Program wing-** The Program Wing is led by a Senior Deputy Director General, supported by several Additional Director Generals . There is a production team headed by senior producers , producers and assistant producers. This wing is responsible for conceptualizing, planning, and producing radio programs and forms an integral part of the Program Wing. News wing is also there .
- **News Services Division (NSD)-**The News Services Division of AIR is one of the most significant components of the organization. Together with its regional news units, NSD broadcasts over 600 news bulletins daily, including nearly 200 news headlines on AIR's FM channels. At the headquarters in New Delhi, the NSD is organized around two key units – the



**General News Room (GNR)** and the **Hindi News Room (HNR)**. The division is structured into two categories:

- **Operational Units:** Responsible for news gathering, processing, and broadcasting.
- **Support Units:** Handle administrative and logistical requirements of the operational units.

**II) Engineering Wing-** This wing is headed by Engineer in chief who is assisted by several engineers. They ensure the smooth functioning of the radio station . These Chief Engineers are further assisted by Directors, Assistant Directors, and other engineering staff who collectively oversee technical operations, transmission quality, and maintenance.

**III) Administration Wing-** The administrative wing provides all the support that is required for the functioning of the station

Now we will learn the working of Radio station .

- **Radio Studio**

Radio studio is the room where all the programs are designed or produced . This room is acoustic studio and must be completely silent ,even a fan can't be running. This space is called sound lock which prevents outside noise . We can record outside only for outside broadcast where ambience is being required. You can feel the difference of recording in studio and recording in crowdie place. After recording in crowdie area you can listen the audio then you will find so many unwanted sounds . There are heavy doors of studio and the studio walls are fitted with acoustic foam panels.

The organizational structure of radio in India is designed to ensure efficient management, coordination, and smooth broadcasting. At the top is the **Director General**, responsible for overall policy and administration. Below are various departments, including **programming, engineering, news, and administration**, each headed by specialists. **Producers** manage program content, **engineers** handle technical operations, and **reporters and announcers** deliver content to the audience. The structure emphasizes a clear **hierarchy, division of responsibilities, and coordination** among departments to serve diverse listeners effectively. Both **All India Radio (public)** and private stations follow similar frameworks,



though private stations often have a **leaner, market-driven structure**.



The material used for Radio Studio

- Acoustic Foam Panels for absorbing the sound
- Fiberglass or Mineral Wool to **block sound transmission**.
- Mass Loaded Vinyl (MLV) to **add density and block sound** from entering or leaving the room.
- Cork or Rubber Mats on walls for **vibration and sound absorption**.
- Double-Glazed Windows / Thick Doors to reduce noise.
- Carpets and Curtains to **absorb ambient sound** and reduce echo.

In studio you will find one table chair and microphones . Radio Jockey is called announcer in All India



Radio. All India radio has so many radio studios for producing various programmes but one there will be two radio studios at least in any radio station. One is for live and one is for recording.

- **Control Room**

In control room you will find console. A **console** (also called a **mixing console or audio mixer**) is the **main control panel** in a radio studio. It is used to **manage and balance all the audio sources**—such as microphones, music, phone calls, and recorded clips. In the control room, technical people control the whole process and immediately send these waves to the transmitter.

The transmitter sends these sound waves to the listeners' radio sets which convert them into sounds. There is no time gap in the whole process. Studio Control Room (CR) Transmitter (XTR) Listener

**Studio → Production Control Room (PCR) → Transmitter → Listener**

Transmitters are generally located outside the city boundaries.

A **radio transmitter** is a device that **sends out radio signals** carrying sound (voice, music, news, etc.) from the studio to the audience through electromagnetic waves.

It is an essential part of the broadcasting chain that **converts audio signals into radio waves** and transmits them via an antenna.

### **Roles and Responsibilities in All India Radio**

**Director General** – The Director General (DG) Formulates and implements **national broadcasting policies**. Ensures that radio services promote **education, culture, and national integration**.

**Producers** – Producers are the **creative backbone** of radio stations. They Plan and conceptualize radio programs such as talk shows, features, or music programs. They Coordinate with scriptwriters, sound engineers, and announcers. They regulate the angle of the programme and determine the approach.

**Reporters** – Reporters **Collect news** from the field, interviews, or press conferences. They Provide **live coverage** during special events or emergencies.

**Engineer in Chief** – The Engineer-in-Chief is responsible for the **technical operations** of the radio network. They provide the technical support to producers and studio staff.

**Announcer** - **Announcers present programs**, news bulletins, and special announcements on-air.



### Three-Tier System of Radio Broadcasting in India

All India Radio operates on a three-tier broadcasting model – **National, Regional, and Local.**

- **National Channel:** Established on 18 May 1988, it caters to the information, education, and entertainment needs of audiences across India. Its transmitters in Nagpur, Mogra, and Delhi operate from dusk to dawn, covering around 76% of the population.
- **Regional Stations:** Form the middle tier, broadcasting in regional languages and celebrating cultural diversity, including the North-Eastern Service from Shillong.
- **Local Radio Stations:** The most community-focused tier, serving small areas with highly localized content to address community needs and provide a platform for local voices.

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#### 3.3.1 Organizational Structure of Private Radio Stations

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Private radio stations follow a different organizational model compared to All India Radio. The structure varies by station size and staff strength, but most adhere to a standard format and operate according to a fixed broadcast clock. Private stations generally do not have a news wing and focus primarily on entertainment and branding. Radio city, Radio Mirchi, Big FM, Red FM and so many private radio stations are commercial radio stations and given license by government to broadcast the programs. Private Radio stations generally use one format music program. And their target audience is youth.



Key positions include:

- **Station Manager:** Oversees day-to-day operations, content management, budgeting, and employee performance reviews.



- **Operations Manager:** Works closely with Radio Jockeys (RJs) to ensure brand consistency and smooth operations.
- **Programming Head:** Supervises programme content and may influence the station's format.
- **Sales Manager:** Manages advertising strategies, client relations, and community partnerships.
- **Music Manager/Handler:** Decides which music is aired and coordinates with DJs and announcers.
- **Audio Engineer:** Responsible for technical quality, equipment maintenance, and sound management during live broadcasts.
- **Radio Jockeys/On-Air Personalities:** Serve as the voice of the station, engage listeners, play music, conduct interviews, and share weather or traffic updates.

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### 3.4 Summary

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The organizational structure of radio in India is designed to ensure efficient management, coordination, and smooth broadcasting. At the top is the **Director General**, responsible for overall policy and administration. Below are various departments, including **programming, engineering, news, and administration**, each headed by specialists. **Producers** manage program content, **engineers** handle technical operations, and **reporters and announcers** deliver content to the audience. The structure emphasizes a clear **hierarchy, division of responsibilities, and coordination** among departments to serve diverse listeners effectively. Both **All India Radio (public)** and private stations follow similar frameworks, though private stations often have a **leaner, market-driven structure**.

A private radio station is structured to efficiently manage its programming, technical operations, and business functions. At the top is the owner or proprietor, who holds overall control and makes strategic decisions while ensuring compliance with government regulations. The station manager or director oversees daily operations, manages budgets and schedules, and coordinates between departments. The program director plans and supervises all radio programs, deciding the content style, show timings, and audience engagement strategies. Producers develop content for shows and work closely with radio presenters or anchors, who host programs, interact with listeners, and ensure engaging broadcasts. The technical or engineering team maintains transmitters, sound equipment, and broadcasting technology to





ensure smooth and high-quality transmission. Meanwhile, the marketing and sales team handles advertisements, sponsorships, and promotions, working to increase listenership and revenue. Support staff, including administrative personnel, researchers, and social media managers, assist in operations, content research, and digital outreach. Overall, the organizational structure of a private radio station balances creativity, technical efficiency, and business management to deliver engaging content and sustain the station's growth.

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### 3.5 Keywords

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1. Private Radio Station
2. Organizational Structure
3. Owner/Proprietor
4. Station Manager/Director
5. Program Director
6. Producers
7. Radio Presenters/Anchors
8. Technical/Engineering Team
9. Marketing and Sales
10. Support Staff
11. Programming
12. Broadcasting
13. Audience Engagement
14. Advertisements
15. Content Management

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### 3.6 Check your progress

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1. Who is responsible for making strategic decisions in a private radio station?



2. What are the main duties of a station manager or director?
3. Which department plans and supervises all radio programs?
4. What role do producers play in a radio station?
5. Name the personnel responsible for hosting shows and interacting with listeners.

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### 3.7 Self-Assessment

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1. Who holds the overall control and strategic decision-making in a private radio station?
  - a) Program Director
  - b) Station Manager
  - c) Owner/Proprietor
  - d) Producer
2. Which department is primarily responsible for planning and supervising radio programs?
  - a) Technical Team
  - b) Marketing and Sales
  - c) Program Director
  - d) Support Staff
3. Producers in a radio station mainly:
  - a) Handle advertisements and sponsorships
  - b) Develop content and coordinate with presenters
  - c) Maintain transmitters and sound equipment
  - d) Manage finances and budgets
4. Who interacts directly with listeners and hosts radio shows?
  - a) Engineer



- b) Radio Presenter/Anchor
- c) Station Manager
- d) Marketing Executive

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### 3.8 Answers to Check Your Progress

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1. c) Owner/Proprietor
2. c) Program Director
3. b) Develop content and coordinate with presenters
4. b) Radio Presenter/Anchor
5. c) Maintaining transmitters and sound equipment
6. b) Increasing listenership through advertisements and sponsorships
7. b) Social Media Manager

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### References

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- Keith, Michael C. *The Radio Station: Broadcast, Satellite & Internet*. Focal Press, 2021.
- Sterling, Christopher H., and Kittross, John M. *Stay Tuned: A History of American Broadcasting*. Routledge, 2019.
- India Today Group. *Broadcasting in India: Policies and Practices*. India Today Publications, 2020.
- Thussu, Daya K. *Media on the Move: Global Flow and Contra-Flow*. Routledge, 2018.
- Ministry of Information and Broadcasting, Government of India – Official Guidelines and Reports on Private FM Radio Stations.

---

### Suggested Readings

---

- Hendy, David. *Radio in the Global Age*. Polity Press, 2013.
- Croteau, David, and Hoynes, William. *Media/Society: Industries, Images, and Audiences*.



SAGE Publications, 2020.

- Starkey, Guy. *Radio: The Resilient Medium*. Palgrave Macmillan, 2017.
- Kumar, Keval J. *Mass Communication in India*. Jaico Publishing, 2021.
- Arora, Payal. *The Evolution of Private FM Radio in India*. Sage Publications, 2019.



<b>SUBJECT: ELECTRONIC MEDIA (SPECIAL PAPER-1) RADIO</b>	
<b>COURSE CODE: MSM-523 B</b>	<b>AUTHOR: DR. SHIPRA DUA</b>
<b>LESSON NO.: 4</b>	
<b>Privatization of Radio in India</b>	

## STRUCTURE

- 4.1 Learning Objectives
- 4.2 Introduction
- 4.3 Privatization of Radio in India
  - 4.3.1 Phases of FM privatization
  - 4.3.2 Community Radio in India
  - 4.3.3 Impact of privatization in India
- 4.4 Summary
- 4.5 Keywords
- 4.6 Check your progress
- 4.7 Self-Assessment Test
- 4.8 Answers to Check Your Progress
- 4.9 References and Suggested Readings

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### 4.1 Learning Objectives

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- To understand the concept of privatization and its application to radio broadcasting in India.
- To learn about the historical background of All India Radio (AIR) and its monopoly before privatization.



- To Identify the phases of radio privatization in India: Phase I (1999–2000), Phase II (2005–2006), and Phase III (2015 onwards).
- To understand the role of the Ministry of Information and Broadcasting in regulating private FM radio stations.
- To analyse the impact of privatization on content diversity, local programming, and listener engagement.

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## 4.2 Introduction

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Radio has been one of the most influential mass communication mediums in India. From its early beginnings in the 1920s to the present day of digital streaming, it has reflected the country's social, cultural, and political changes. Initially controlled by private clubs, radio soon came under government control due to financial and structural issues. For decades, All India Radio (AIR) enjoyed a monopoly, shaping the listening habits of millions. However, with the liberalization of the economy in the 1990s, the radio industry underwent a significant transformation through privatization, opening space for private FM players and expanding entertainment choices for audiences.

In the mid-1930s, Major Edwin Howard Armstrong, an American Engineer who had already devised a successful circuit to improve AM radio broadcast, came up with a whole new approach to transmitting radio signals and invented Frequency Modulation. This invention revolutionized radio broadcasting especially for music.

### **Journey of Frequency Modulation (FM) in India**

In India, FM broadcasting began on 23 July 1977 in Chennai then Madras. It was an experimental service. And then it started from the other metros too. Primarily music was broadcast over FM. It offered much cleaner music, much higher dynamic range and much greater fidelity to the entire frequency range. Hence it proved to be the ideal medium for transmission of western classical music..

The economic reforms of 1991 initiated by the Government of India changed the media landscape. Liberalization policies encouraged private investment in broadcasting, and radio was no exception. The first step toward privatization came in **1993**, when AIR allowed private companies to lease time slots on its FM channels in metro cities.



In March 2000, Govt. held an open auction over 15 days for 108 radio licences. Once the company had a license, it could run the station on its own and pay license fee to the Govt. every year, with a 15% escalation each year. AIR later expanded FM services to other cities, and commercial FM stations were allowed from 2001 onwards

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## Phases of FM Privatization

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### Phase I (1999–2000)

The Government invited bids for **108 FM frequencies in 40 cities**. For the first time, private companies could own and operate stations independently. However, the high license fee model discouraged many operators. Several companies exited the market, unable to sustain operations.

Only a handful survived, but this phase laid the foundation for a competitive FM sector.

### Phase II (2005 onwards)

The Government shifted to a **revenue-sharing model**, making it easier for companies to operate profitably. A total of **337 frequencies were auctioned in 91 cities**. This phase saw the real boom of FM radio in India. Major brands such as **Radio Mirchi (ENIL), Red FM, Radio City, and Big FM** expanded rapidly. Stations focused on youth-oriented content, Bollywood music, and localized shows.

### Phase III (2015 onwards)

- The Government allowed auctions for over 800 frequencies across 294 cities.
- FM coverage expanded beyond metros into Tier-II and Tier-III cities.
- Private players gained more reach, but restrictions on broadcasting news continued.
- Stations were permitted to rebroadcast AIR news bulletins but not produce independent news.



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### Licensing Process

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The Committee is of the view that the open auction bid process was not suitable for auctioning of the frequencies and it did not yield the desired results. Various legal challenges were raised in connection with the open auction bid process followed in case of Phase I of the liberalization of FM broadcasting. The Committee recommends that adoption of tender process for radio licenses is more suitable for the following reasons:

1. It is a standard and simple process followed by the Government in numerous sectors whereby sufficient experience has been garnered. The process is also judicially well recognised.
2. It is an internationally well-accepted process.
3. It is the preferred process, specifically for broadcast licenses. It is one of the prescribed processes in case of auction of spectrum licenses in Australia and is also followed in the United Kingdom. The European Community recommendation on Independent Broadcast Regulator also envisages a tender process for broadcast licenses.

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### Community Radio in India

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Alongside private FM, the Government also promoted **community radio** as a tool for social development. These stations are typically run by educational institutions, NGOs, or local groups to





serve grassroots communities.

- The first licenses were given in **2002**.
- Today, India has nearly **500 community radio stations**.
- **Uttar Pradesh** has the maximum number, followed by Maharashtra and Tamil Nadu.
- Community radios focus on **local issues, agriculture, women's empowerment, and education**, making them a crucial part of inclusive communication.

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### Current Scenario of Radio in India

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Today, India has:

- **400+ private FM stations** operating across metros and smaller cities.
- Popular networks such as **Radio Mirchi, Red FM, Radio City, Fever FM, Big FM, and Radio One** dominate the industry.
- AIR continues with its networks including **Vividh Bharati, FM Rainbow, FM Gold**, and regional stations.
- Community radio, introduced in the early 2000s, has also grown steadily, catering to grassroots communities.

Most private FM stations today focus on **music, talk shows, entertainment, and local engagement**. Despite the rise of digital music apps, radio remains strong due to its accessibility, affordability, and ability to provide **localised content**.

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### Impact of Privatization

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The privatization of radio had a profound impact on Indian broadcasting:

#### 1. Increased Competition and Quality

Private players introduced competitive programming, high-energy radio jockeys (RJs), and innovative shows, improving overall quality and listener engagement.

#### 2. Localized Content and Culture



FM stations tailored their programming to local audiences, promoting regional languages, artists, and cultural content. This helped preserve local traditions while making radio relevant to city-specific audiences.

### 3. Advertising and Revenue Growth

FM radio became an attractive medium for advertisers, especially local businesses and brands targeting urban youth. The sector grew into a multi-billion-rupee industry, supported by advertising revenue.

### 4. Employment Opportunities

The rise of private FM created new career paths for **radio jockeys, sound engineers, producers, and marketing professionals**, boosting employment in the creative sector.

### 5. Entertainment-Driven Content

Radio transformed from a primarily informational medium into a vibrant entertainment platform, particularly appealing to young audiences.

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## Challenges in the Privatization Journey

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Despite successes, the privatization of radio in India faces several challenges:

- **Restrictions on News Broadcasting:** Private FM channels are still barred from producing independent news content, limiting their role as a democratic information platform. Private radio stations can only serve infotainment. Information plus entertainment. That means soft news or any entertaining information
- **High Operational Costs:** Licensing and compliance costs remain high, making survival difficult for smaller operators.
- **Market Concentration:** A few big networks dominate the sector, leading to limited diversity of ownership.
- **Competition from Digital Media:** Streaming platforms, podcasts, and music apps have emerged as strong competitors to FM radio. That's the reason private radio stations are also adopting such fashionable formats like podcast.



- **Limited Reach in Rural Areas:** While FM has grown in cities, rural areas still rely heavily on AIR and community radio for information.

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### Future Prospects of Radio in India

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1. **Digital & Internet Radio** – As smartphone penetration grows, radio networks are streaming online to reach younger, tech-savvy listeners.
2. **Possible News Liberalization** – There are on going debates about allowing private FM to broadcast news, which could reshape the sector.
3. **Community Radio Expansion** – The Government is encouraging NGOs, universities, and cooperatives to start community stations.
4. **Hyper-local Content** – Radio's strength lies in connecting with local communities in their own language, which ensures its continued relevance.

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### 4.4 Summary

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Privatization of radio in India refers to the process of allowing private players to enter the radio broadcasting sector, which was earlier monopolized by **All India Radio (AIR)**, a government-owned network. This major shift began in the **1990s** as part of India's broader economic liberalization policy.

Initially, AIR had complete control over radio broadcasting, focusing on public service, education, and national integration. However, with the growth of media and increasing demand for diverse entertainment and localized content, the government decided to open the sector to private participation.

The **first phase of privatization** started in **1999–2000**, when the **Government of India invited bids for FM radio licenses** in select cities. This allowed private companies to operate commercial FM stations. In the **second phase (2005–2006)**, more cities were included, and the **number of private FM stations increased significantly**, bringing new formats such as music, talk shows, and youth-oriented programs.

The **third phase (2015 onwards)** further expanded private participation by allowing **news content from AIR**, longer license periods, and permission for stations to operate in smaller towns.

Privatization transformed the Indian radio landscape by:



- Increasing competition and content variety.
- Enhancing listener engagement through local language programming.
- Creating new job opportunities and advertising markets.
- Reducing the dominance of state-run broadcasting.

Today, private FM stations such as Radio Mirchi, Red FM, Radio City, Big FM, and Fever FM have become popular across the country, catering to diverse audiences and interests.

In essence, privatization of radio in India democratized the airwaves, promoted cultural diversity, and revitalized the medium by blending public service with commercial entertainment.

The radio has undergone a remarkable transformation. The privatization of radio in India represents one of the most significant reforms in the media landscape. The journey of radio in India reflects the country's broader transformation. From a state-controlled monopoly under AIR to a dynamic, entertainment-driven private FM industry, radio has adapted to technological and policy shifts. Privatization brought competition, variety, and innovation, making radio a youthful and vibrant medium once again.

The privatization of radio since the 1990s has created more choices for listeners, more opportunities for advertisers, and more space for cultural expression. Yet, challenges such as restrictions on news broadcasting and competition from digital platforms remain.

As India moves further into the digital age, radio continues to be a powerful, affordable, and local medium. With the expansion of community radio and the potential opening up of news broadcasting, the future of Indian radio remains promising. Thus, the story of privatization is not just about entertainment—it is about empowering local voices, preserving cultural identity, and ensuring that radio remains a people's medium in the digital age.

#### Timeline of FM Radio in India

Year	Event / Development
1977	First FM station launched in Chennai (Madras) by All India Radio (AIR) as an experimental service. Aim: high-fidelity sound for music and entertainment.



1980s	AIR gradually expanded FM broadcasts to other cities on a limited scale, mainly for music programs and special events.
1990	Official FM services started in Delhi and Mumbai by AIR, providing regular entertainment and music programming.
2001	Private FM broadcasting permitted by the Indian government, opening the market to commercial FM stations.
2001–2010	Rapid growth of private FM channels such as Radio Mirchi, Red FM, Big FM, Radio City, covering major urban areas.
2010 onwards	FM expanded to tier-2 and tier-3 cities, with regional stations offering local language content, talk shows, and music.
Present Day	India has hundreds of FM stations reaching almost all urban and semi-urban areas. FM coexists with digital, satellite, and internet radio, including podcasts.

#### 4.5 Keywords

- Liberalization
- FM Broadcasting
- Commercialization
- Private FM Stations
- License Policy
- Phase I (1999–2000)
- Phase II (2005–2006)
- Phase III (2015 onwards)



- Information and Broadcasting Ministry

1. **Public–Private Partnership**

2. **Media Reforms**

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**4.6 Check your progress**

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- 1 Before privatization, which organization had complete control over radio broadcasting in India?
  - a) Doordarshan
  - b) Press Trust of India
  - c) All India Radio (AIR)
  - d) Ministry of Communication
- 2 The privatization of radio in India began during which period?
  - a) 1980s
  - b) 1990s
  - c) 1970s
  - d) 2000s
- 3 The first phase of FM radio privatization in India was launched in:
  - a) 1995–1996
  - b) 1999–2000
  - c) 2002–2003
  - d) 2005–2006
- 4 Which phase of privatization led to a major expansion of private FM radio stations in India?
  - a) Phase I
  - b) Phase II



- c) Phase III
  - d) Phase IV
- 5 Which ministry oversees the licensing and regulation of private FM radio stations in India?
- a) Ministry of Telecommunications
  - b) Ministry of Information and Broadcasting
  - c) Ministry of Commerce and Industry
  - d) Ministry of Culture
- 6 Which of the following is a popular private FM radio station in India?
- a) Vividh Bharati
  - b) Radio Mirchi
  - c) Doordarshan FM
  - d) Akashvani Plus
- 7 The third phase of radio privatization in India began in:
- a) 2010
  - b) 2012
  - c) 2015
  - d) 2018
- 8 What was one of the main objectives of privatizing radio broadcasting in India?
- a) To increase government control
  - b) To promote local and diverse content
  - c) To reduce entertainment options
  - d) To eliminate competition
- 9 Privatization of radio led to:



- a) Fewer job opportunities
- b) Decline in advertising market
- c) Increased competition and content variety
- d) Ban on private participation

10 Which of the following terms is most closely associated with privatization of radio in India?

- a) Deregulation
- b) Nationalization
- c) Globalization
- d) Centralization

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#### 4.5 Self-Assessment Test

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Q.1 What is meant by privatization of radio?

Q.2 When did the privatization of radio begin in India?

Q.3 Which organization had monopoly over radio broadcasting before privatization? What was the main aim of privatizing radio broadcasting?

Q.4 What are FM radio licenses?

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#### 4.8 Answers to check your progress

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1. c) All India Radio (AIR)
2. b) 1990s
3. b) 1999–2000
4. b) Phase II
5. b) Ministry of Information and Broadcasting
6. b) Radio Mirchi
7. c) 2015





8. b) To promote local and diverse content
9. c) Increased competition and content variety
10. a) Deregulation

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#### 4.9 References/Suggested Readings

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- Wikipedia. (n.d.). *Radio in India*. In *Wikipedia*. Retrieved October 14, 2025, from [https://en.wikipedia.org/wiki/Radio\\_in\\_India](https://en.wikipedia.org/wiki/Radio_in_India)
- Maps of India. (n.d.). *Know the history of radio privatization in India*. Retrieved October 14, 2025, from <https://www.mapsofindia.com/my-india/history/know-the-history-of-radio-privatisation-in-india>
- Telecom Regulatory Authority of India (TRAI). (2023, September 5). *Recommendations on issues related to FM radio*. Retrieved October 14, 2025, from [https://www.trai.gov.in/sites/default/files/2024-09/Recommendation\\_05092023.pdf](https://www.trai.gov.in/sites/default/files/2024-09/Recommendation_05092023.pdf)
- Press Information Bureau (PIB). (n.d.). *E-auction of the first batch of private FM radio Phase III channels*. Retrieved October 14, 2025, from <https://www.pib.gov.in/newsite/PrintRelease.aspx?relid=124093>
- Ministry of Information and Broadcasting. (n.d.). *Broadcast Seva*. Retrieved October 14, 2025, from <https://www.broadcastseva.gov.in/>



SUBJECT: ELECTRONIC MEDIA (SPECIAL PAPER-1) RADIO	
COURSE CODE: MSM-523 B	AUTHOR: DR. SHIPRA DUA
LESSON NO.: 5	
Radio Formats	

## STRUCTURE

### 5.1 Learning Objectives

### 5.2 Introduction

### 5.3 Radio Formats

#### 5.3.1 Spoken word

##### 5.3.1.1 Radio Talks

##### 5.3.1.2 Radio interviews

##### 5.3.1.3 Radio Discussions

##### 5.3.1.4 Radio Documentary and Feature

##### 5.3.1.5 Radio Drama/Play

##### 5.3.1.6 Magazines

##### 5.3.1.7 News Bulletin

##### 5.3.1.8 Radio commercial

##### 5.3.1.9 Radio Bridge

##### 5.3.1.10 Radio spots

##### 5.3.1.11 Traffic Updates /Pranks

##### 5.3.1.12 Podcast /Internet Radio

#### 5.3.2 Music programs



### 5.3.3 Sound Effects

### 5.4 Summary

### 5.5 Keywords

### 5.6 Check your progress

### 5.7 Self-Assessment Test

### 5.8 Answers to Check Your Progress

### 5.9 References and Suggested Readings

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## 5.1 Learning objectives

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- To define radio formats and understand their significance in broadcasting.
- To identify and differentiate between music-based, talk/news-based, and mixed/variety formats.
- To understand how radio formats help attract and retain specific audiences.
- To explain how radio formats influence advertising and revenue generation for radio stations.

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## 5.1 Introduction

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Radio formats refer to the different types of programmes and styles of presentation used on radio. Each format is designed with a particular purpose – to inform, educate, entertain, or engage the audience. Radio has a unique ability to combine spoken words, music, and sound effects to create a variety of engaging programme styles.

Radio Programs can be categorized in three main ways

1. **Spoken Word**
2. **Music**
3. **Sound Effects**

Though Private radio stations run mostly music programs and in spoken word pranks. But Government Radio stations broadcast all formats. So here we will discuss all formats of radio .



First we will learn spoken word programme.

### **1. Spoken Word Programmes**

Spoken word programmes form the heart of radio broadcasting and cover a wide range of formats. They primarily use speech as the main medium of communication, sometimes supported by background music (BGM) and sound effects(SFX).

#### **a) Radio Talks**

Radio talks are among the oldest radio formats. Traditionally, there has been a tradition in India and Britain to invite experts, academics, and prominent personalities are invited to speak on a specific topic of public importance for 10–15 minutes. Basically talk is a conversation through which experts give information on specific topic to listeners. A good radio talk is simple, clear, descriptive, and gives the impression that the speaker is having a one-on-one conversation with the listener. An announcer can also talk to the listeners on any informational topic . you can still listen talk on public service broadcasting station. Though Modern radio prefers shorter, more conversational talks rather than formal speeches, to maintain listener interest.

#### **b) Radio Interviews**

Interviews are an important component of broadcast programming. The word—interview comes from the French term meaning —to see one another. Radio interviews range from brief sound bites in news bulletins to in-depth, hour-long talk shows. The duration of the interview may vary from 10 minutes to 30 minutes or even 60 minutes depending upon topic and guest. The guest can be any personality in the field of films, sports, literature, science, or may be any professor talking about career. Interviewing eyewitnesses at the scene of an event, celebrities, authors, or experts allows listeners to gain first-hand information and diverse perspectives. The interviewer must encourage the interviewee to speak freely and share interesting insights. There is a another type of interview where interviewer goes to people and asks them one or two questions and collects information. That type of interview is called vox-pop which is a latin phrase meaning voice of the people.

Interview is an art. An interviewer should work hard for preparing the interview. Interviewer should do a lot of research about the guest and topic and must have good communication skills.



### **c) Radio Discussions**

Radio discussions are the most favourite thing among humans . We always find solution after discussion on the topic. But there is a difference between interview and discussion. As in interview we have only one interviewee with us. But discussions allow multiple participants to express their views on matters of public concern—such as social, political, or economic issues. Usually moderated by an experienced journalist or presenter, these programmes run for 15 to 30 minutes. The moderator introduces the topic of the discussion and encourage the every member of the group to express themselves and makes sure that everyone gets chance to speak. Radio Discussions provide listeners with multiple points of view, helping them form informed opinions. But we should consider one thing that discussion should not be converted into debate . In discussion we want to find solution to the problem.

### **d) Running Commentaries**

Running commentary is one of the most exciting radio formats. The commentator gives a live, moment-by-moment description of events, allowing listeners to feel as though they are present at the venue. Commentaries are common during sports events (cricket, football, hockey), ceremonial occasions (Republic Day Parade), festivals, rath yatras, political events, and even the funerals of national leaders. A commentator must have a clear voice, quick thinking, and complete knowledge of the event.

### **e) Radio Documentaries and Features**

Documentary means documented means written facts . Radio documentaries are factual and educational programmes that use narration, interviews, recorded sound, and music to present a truthful account of events, issues, or personalities. They can cover topics such as history, science, politics, culture, or biographies. There is a protagonist who narrates the intro body and conclusion . Voice over artists do voice overs and audio bytes are collected from the field . Documentaries can be made on any historical topic, any monuments or any person. Documentary can not be fictional and there is no need of dramatizing the event unlike features.

Radio features, on the other hand, are similar to documentaries but allow greater creative freedom. They may include dramatized scenes, poetry, or imaginary conversations to present facts in a more imaginative way. Features are often used to interpret social issues or historical events in an engaging



style.

There are two main types of radio features:

- **Narrative Features:** Based on narration and recorded extracts from books, reports, or archives.
- **Dramatized Features:** Use dramatic dialogues and effects to present factual events in a lively manner.

#### **f) Radio Drama / Radio Play**

Radio drama is storytelling through sound alone. It combines dialogue, music, and sound effects to create scenes and situations. A good radio drama has a clear beginning, middle, and end, with natural dialogue and a strong climax to maintain listener interest.

#### **g) Magazine Programmes**

Radio magazines are periodic programmes broadcast weekly or monthly at a fixed time. They contain a variety of formats such as talks, interviews, music, reviews, and features – similar to a printed magazine. They are introduced by a signature tune and presented by anchors who give continuity and link the segments. Magazine programmes are often designed for a specific audience— such as women, children, or farmers. A radio magazine is broadcast at a particular time on a particular day of a week or a month. That means it has periodicity. Similarly it has plenty of variety in contents. Some or many formats of radio are included in a radio magazine. These may be talks, discussions, interviews, reviews, music etc.

#### **h) News Bulletins**

News bulletins are the most popular spoken word format. All India Radio (AIR) broadcasts news bulletins almost every hour in English, Hindi, and several regional languages. Bulletins vary in length from 5 to 15 minutes, presenting national and international news, sports, and human-interest stories in order of importance. AIR's bulletins follow a formal, structured style and are highly trusted for credibility.

#### **j) Announcements**

Announcements provide specific information to the listener—such as station identification, frequency,



time, or programme details. In commercial radio, announcements are often informal and conversational. There are public service announcements which are announced for public welfare. It may be on swachta it may be on wearing mask.

### **k) Phone-in Programmes**

Phone-in programmes are interactive formats where listeners call the station to speak with presenters or experts live on air. Initially used for film-song requests, today they cover topics such as health advice, governance issues, public grievances, and education. These programmes require advance publicity to ensure active participation. RJs use Phone-in programmes to interact with the listeners and to increase their engagement. RJs play the quiz also and give the attractive prize/coupons to the winners so this way listeners feel engaged. On the other hand government radio stations announcers ask for the choices for the songs and feedbacks and letters then announcers read their letters in their show. So this way phone-in programmes are becoming more popular day by day because this way people feel more connected.

### **l) Radio Bridge**

Radio Bridge connects studios and listeners from different parts of the country, allowing simultaneous participation in discussions or interviews. All India Radio first used this format during election coverage to connect experts and the public from different regions.

### **m) Podcasts and Internet Radio**

With the rise of digital technology, radio has moved online. Internet radio removes the restrictions of frequency licenses and allows global access to programmes. Podcasts are pre-recorded audio shows that listeners can download or stream anytime, making radio content more flexible and on-demand. There are so many famous podcast online streaming platforms like **Spotify India** – Hosts regional-language podcasts. **Gaana** – Music streaming platform that also offers podcasts. **JioSaavn** – Indian music and podcast platform and so many platforms.

### **n) Traffic Updates and Prank Shows**

Commercial FM stations often broadcast regular traffic updates for urban commuters. Some stations also include light-hearted prank calls, adding humor and entertainment value. For example RJ Naved's show *mirchi murga*, RJ Raunak's show *Bahua* have been very popular among youth. Traffic updates



have become also important part of radio morning show.

### **o) Radio Commercials / Spots**

Commercials are short audio advertisements broadcast between programs. They are crafted with catchy jingles, slogans, and persuasive language to promote products or services. Commercials are different from social advertisements. Private radio organizations call advertisements spot .

## **2. Music Programs**

Music is the soul of radio and perhaps its most popular offering. Music programs attract the highest listenership, as seen in the success of channels like Vividh Bharati. Music on radio is used in two ways:

1. **Standalone Music Shows:** Programs dedicated exclusively to music – including film songs, classical music, devotional music, or western pop.
2. **Supportive Music:** Used as signature tunes, background effects in plays, features, and jingles.

### **Types of Music Broadcast on Radio:**

- **Classical Music:** Includes Hindustani, Carnatic, and Western classical traditions, both vocal and instrumental.
- **Light Classical Music:** Includes Thumri, Dadra, and other semi-classical forms.
- **Folk Music:** Regional and traditional songs from various parts of India.
- **Devotional Music:** Bhajans, kirtans, qawwalis, and spiritual songs.
- **Film Music:** Hindi film songs are the most popular across the country, followed by regional film songs.
- **Western and Pop Music:** Increasingly popular among younger audiences.

Music programmes provide relaxation, entertainment, and cultural enrichment. They are carefully curated to suit different times of the day—soft music in the morning, peppy numbers in the afternoon, and romantic or devotional music at night.

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### **Sound Effects in Radio**

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Sound plays a critical role in creating atmosphere, evoking emotions, and enhancing storytelling on





radio. There can be recorded natural sound effects like natural laughter, crying or chirping sound, or sound of knocking the door.

- **Comic Effects:** Used to generate humour
- **Mood Creation:** Background sounds help set the tone of the programme.
- **Dramatic Effects:** Sound effects can make a situation realistic and immersive.

## Summary

Radio formats are diverse and versatile, allowing broadcasters to serve multiple objectives – news, education, entertainment, public service, and audience engagement. The combination of spoken word, music, and sound effects ensures that radio remains one of the most imaginative and impactful mass media, capable of reaching and influencing millions.

Radio formats refer to the **programming style or content type** that a radio station adopts to attract a specific audience. The format determines the **kind of music, talk shows, news, or entertainment** the station broadcasts and helps in targeting listeners with shared interests.

In India, radio formats can be broadly categorized into **three main types**:

### 1. Music-Based Formats

- Focus primarily on playing music of specific genres (e.g., Bollywood, pop, rock, classical).
- Examples: *Radio Mirchi*, *Red FM*.
- Attracts listeners who tune in mainly for entertainment and music variety.

### 2. Talk/News-Based Formats

- Emphasizes talk shows, interviews, news updates, discussions, and educational programs.
- Examples: *AIR News*, *FM Gold Talk Shows*.
- Appeals to listeners interested in current affairs, debates, and informative content.

### 3. Mixed/Variety Formats



- Combines music, talk shows, news, and entertainment segments.
- Provides a balance of information and entertainment to a wider audience.
- Examples: *Big FM*, *Radio City*.

### Importance of Radio Formats:

- Helps stations **build a loyal listener base**.
- Attracts **advertisers targeting specific demographics**.
- Allows customization of content for urban, rural, youth, or niche audiences.
- Encourages creativity and diversity in broadcasting.

In essence, choosing the right radio format is crucial for a station's success, audience engagement, and revenue generation.

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### 5.5 Keywords

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- Music-Based Format
- Talk/News Format
- Mixed/Variety Format
- Entertainment
- Information
- Listener Targeting
- Demographics
- Broadcasting Style

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### 5.6 Check your progress

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1. Which organization had a monopoly over radio broadcasting in India before privatization?
  - a) Doordarshan



- b) All India Radio (AIR)
  - c) Radio Mirchi
  - d) Red FM
2. When did the privatization of radio begin in India?
- a) 1980s
  - b) 1990s
  - c) 2000s
  - d) 2010s
3. What was the main objective of privatizing radio in India?
- a) Reduce content variety
  - b) Promote local and diverse programming
  - c) Increase government control
  - d) Eliminate FM stations
4. Which ministry regulates private FM radio stations in India?
- a) Ministry of Telecommunications
  - b) Ministry of Culture
  - c) Ministry of Information and Broadcasting
  - d) Ministry of Commerce
5. Phase II of radio privatization in India occurred during:
- a) 1999–2000
  - b) 2005–2006
  - c) 2010–2012
  - d) 2015 onwards



6. Which of the following is a popular private FM station in India?
  - a) Vividh Bharati
  - b) Radio Mirchi
  - c) AIR Gold
  - d) Akashvani
7. Phase III of privatization focused on:
  - a) Reducing private participation
  - b) Expanding private FM channels to smaller towns
  - c) Eliminating advertisements
  - d) Nationalizing all stations
8. Privatization of radio helped in:
  - a) Decreasing competition
  - b) Limiting content to news only
  - c) Increasing listener engagement and content variety
  - d) Reducing employment opportunities
9. Which of the following was a benefit of radio privatization?
  - a) Monopoly of AIR
  - b) Growth of advertising revenue
  - c) Only government-approved content
  - d) Closure of private FM stations
10. Privatization of radio contributed to:
  - a) Uniform content across the country
  - b) Greater diversity in programming and formats



- c) Reduction of local language programs
- d) Elimination of music-based channels

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### 5.7 Answers to Check Your Progress

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1. b) All India Radio (AIR)
2. b) 1990s
3. b) Promote local and diverse programming
4. c) Ministry of Information and Broadcasting
5. b) 2005–2006
6. b) Radio Mirchi
7. b) Expanding private FM channels to smaller towns
8. c) Increasing listener engagement and content variety
9. b) Growth of advertising revenue
10. b) Greater diversity in programming and formats

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### 5.8 Self-Assessment Test

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1. Explain the meaning of privatization of radio in India.
2. Describe the role of All India Radio (AIR) before privatization.
3. List and briefly explain the three phases of radio privatization in India.
4. How did privatization impact content diversity and local programming?
5. Name at least three popular private FM radio stations in India and their formats.

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### 5.9 References and Suggested Readings

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- Kaur, R., & Rai, P. (2013). *Media in India: Challenges and Opportunities*. New Delhi: Sage Publications.
- Jeffrey, R. (2010). *India's Media Revolution*. New Delhi: Routledge.



- Ranganathan, M., & Rodrigues, U. (2015). *Indian Media in a Globalized World*. New Delhi: Sage Publications.
- Thussu, D. K. (2007). *Media on the Move: Global Flow and Local Turbulence*. New York, NY: Routledge.
- Rajagopal, A. (2001). *Politics After Television: Hindu Nationalism and the Reshaping of the Public in India*. Cambridge: Cambridge University Press.



<b>SUBJECT: ELECTRONIC MEDIA (SPECIAL PAPER-1) RADIO</b>	
<b>COURSE CODE: MSM-523 B</b>	<b>AUTHOR: DR. SHIPRA DUA</b>
<b>LESSON NO.: 6</b>	
<b>Basics of Radio Production</b>	

## STRUCTURE

- 6.1 Learning Objectives
- 6.2 Introduction
- 6.3 Basics of Radio Production
  - 6.3.1 Pre -Production
  - 6.3.2 Production
  - 6.3.3 Post Production
- 6.4 Summary
- 6.5 Keywords
- 6.6 Check your progress
- 6.7 Answers to Check Your Progress
- 6.8 Self-Assessment Test
- 6.9 References and Suggested Readings

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### 6.1 Learning Objectives

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- To understand the concept and scope of radio production and its role in broadcasting.
- To learn about the key elements of radio production, including scripting, sound, music, and effects.



- To Identify the various stages of radio production: pre-production, production, and post- production.
- To understand the technical equipment used in radio production, such as microphones, mixers, and recording software.
- To develop skills in creating engaging content for different types of radio formats (music, talk, news, and mixed programs).

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## 6.2 Introduction

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Radio has been one of the oldest and most influential mass communication media in the world. Even in the 21st century, despite the growth of television, cinema, and the internet, radio continues to play a crucial role in informing, educating, and entertaining people. The strength of radio lies in its immediacy, affordability, portability, and ability to connect with listeners in their native languages. For millions, especially in rural and semi-urban areas, radio is not just a medium of entertainment but also a trusted source of news, cultural programming, and community development.

The process of **radio production** is much more complex than simply —speaking into a microphone. It involves a combination of technical, creative, and organizational skills to create content that engages listeners. Every radio programme—whether it is a music show, talk show, news bulletin, radio drama, or advertisement—goes through a production cycle that includes planning, scripting, recording, editing, and broadcasting.

Let us consider a situation in which you are expecting some guests for an event. What preparations will you do? First of all, you need to decide the venue, food and other preparation. Then you will be taking care of the guests and all arrangement during the event and after the event you will be presenting it. In the same manner there are three stages of radio production.

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## Principles of Radio Production

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Before exploring the steps of production, it is important to understand the fundamental principles that guide all radio programming:

### 1. Immediacy





Immediacy makes radio a —here and now medium, capable of delivering breaking news, live commentary, and instant interaction. Unlike print or recorded formats, radio connects audiences to unfolding events in real time. It responds quickly to emergencies, weather updates, and community issues, creating urgency and trust. Live shows with phone-ins, contests, and requests keep listeners engaged while reinforcing the sense of participation. This immediacy also gives radio an edge in rural or remote areas where internet and television penetration is limited. By being quick, responsive, and relevant, radio establishes itself as a dynamic and indispensable medium for everyday life.

## **2. Simplicity**

Simplicity is central to effective radio communication. Since listeners cannot rewind or re-read content, radio messages must be direct, clear, and easy to understand. The use of conversational language, short sentences, and familiar expressions ensures accessibility for diverse audiences, including those with limited literacy. Unlike complex written texts, radio content should avoid jargon or overly technical terms, focusing instead on clarity and brevity. Simplicity also extends to programme design—straightforward formats like news bulletins, talk shows, or music segments work best. By keeping communication simple yet meaningful, radio ensures that messages are received, retained, and understood by the widest possible audience.

## **3. Imagination**

Imagination is the lifeblood of radio, compensating for the absence of visuals by stimulating mental images. Through voice modulation, descriptive storytelling, music, and sound effects, radio paints vivid pictures in the listener's mind. A radio drama, for instance, can transport audiences to distant worlds using only dialogue and sound design. The listener's imagination fills in the details, making the experience personal and engaging. This —theatre of the mind effect distinguishes radio from television

and print. By sparking imagination, radio not only entertains but also deepens emotional involvement, ensuring that the audience becomes an active participant in the listening experience.

## **4. Intimacy**

Radio creates a powerful sense of intimacy, as if the announcer or RJ is speaking directly to each



listener. Unlike television, which is often consumed in groups, radio is frequently a private experience—whether in a car, at home, or through headphones. The human voice carries warmth, personality, and emotion, making the connection feel personal. RJs often address listeners by saying

—you,<sup>ll</sup> enhancing this bond. This closeness fosters trust, loyalty, and familiarity, which is why radio personalities often become household names. The intimate nature of radio makes it particularly effective for storytelling, advice programmes, and building strong audience relationships.

## 5. Clarity

Clarity in radio production ensures that messages are delivered without distortion or confusion. This involves clear pronunciation, correct pacing, and proper modulation of the voice. Technical aspects also matter: microphones, mixers, and transmission equipment must provide high-quality sound without interference. Since listeners cannot see visual cues, clarity of language is critical—ambiguous phrases or poor articulation can easily lead to misunderstanding. Clarity also means organizing programmes logically, with smooth transitions between segments. When both sound quality and content are clear, radio achieves its purpose of effective mass communication, making even complex issues understandable for a diverse, widespread audience.

## 6. Brevity

Brevity is a core principle of radio, where time is limited and audience attention spans are short. Messages must be concise, focused, and impactful. Long explanations or unnecessary details risk losing the listener, who cannot pause or replay a live broadcast. News bulletins, jingles, advertisements, and

public service announcements are designed to convey maximum meaning in minimum words. Even entertainment programmes use brief segments, with songs, contests, or conversations kept tight to maintain interest. The art of brevity lies in saying more with less, ensuring that every second counts and that audiences remain engaged throughout the broadcast.

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### 6.3 Stages of Radio Production

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There are three stages of Production in Radio.



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### 6.3.1 Pre-Production

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This is the planning stage, where ideas are converted into workable programmes. It involves:

#### 1. Idea Generation

This stage includes everything you do before entering the studio or reaching the shooting location. It involves idea generation, research, scripting, discussions with all the crew members and voice over artists, arranging equipment, audio recorders, and booking of editing shifts.

Idea generation which forms the foundation of every programme. A strong idea determines the type of content—whether it will be a news bulletin, drama, documentary, feature, talk show, interview, or advertisement. The goal is to identify what resonates with the audience while fulfilling the objectives of the broadcaster. For instance, a public service broadcaster may focus on educational or awareness-oriented programming, while private FM channels lean toward entertainment, music, and lifestyle shows.

Brainstorming sessions within the production team often help in exploring themes, formats, and target audiences. External influences, such as current events, festivals, social issues, or popular culture, also inspire programme ideas. At this stage, feasibility is considered: the available resources, budget, talent, and technical support play a role in shaping the idea into a workable programme. Creativity and originality are essential, as radio must compete with other media for attention. Therefore, producers focus on generating fresh, engaging, and relevant concepts that not only attract listeners but also maintain loyalty. Once the central idea is finalized, it acts as the blueprint guiding the subsequent stages of research, scriptwriting, and production planning.

#### 2. Research

After generating an idea, the next critical stage in radio production is research. Research ensures that the programme is factually accurate, informative, and credible. For a news broadcast, this involves gathering details from reliable sources such as press releases, news agencies, government bulletins, or eyewitness accounts. In the case of drama or features, research may involve studying historical contexts, cultural practices, or expert opinions to make the script realistic and engaging. Even



advertisements and jingles rely on research into consumer behavior, market trends, and product information.

Effective research includes both primary methods—like interviews, surveys, and field visits—and secondary methods, such as books, articles, reports, and online resources. The research process also helps producers identify the needs, interests, and demographics of their target audience, ensuring that content remains relevant. Additionally, research aids in spotting potential gaps, avoiding inaccuracies, and presenting multiple perspectives on sensitive issues.

In radio, where clarity and credibility are paramount, research builds the backbone of trust between broadcaster and listener. Without solid background material, even the most creative idea can fall flat. Thus, research forms the essential second step in transforming a concept into a successful radio programme.

### 3. Scriptwriting

Scriptwriting is one of the most important stages in radio production, as it translates ideas and research into a structured form ready for broadcast. Unlike television or print, radio relies solely on sound, which makes the script the guiding framework for presenters, actors, and technical staff.

A script can be word-for-word, as in the case of news bulletins where accuracy and precision are essential, or loosely structured, as in talk shows and interviews where spontaneity is encouraged. The script usually includes dialogues, narration, cues for sound effects, music, and pauses to maintain rhythm and engagement.

For advertisements, scriptwriting emphasizes brevity, catchy slogans, and persuasive language. For dramas and features, it requires creativity, descriptive language, and strong characterization to stimulate the listener's imagination. Importantly, radio scripts must be written in simple, conversational language so that the audience can easily follow. Since listeners cannot go back and re-hear a live broadcast, clarity and flow are essential. Good scriptwriting also considers timing, ensuring the programme fits within the allotted broadcast slot. Ultimately, a well-prepared script serves as the backbone of radio production, ensuring that the programme is coherent, engaging, and effective in delivering its intended message.



#### 4. Casting and Music Planning

Casting and music planning bring the script to life by adding human voices and soundscapes that enhance listener engagement. Casting involves selecting the right radio jockeys (RJs), announcers, narrators, or voice actors to suit the programme's tone and content. A news programme requires clear, authoritative voices, while a drama demands expressive actors capable of portraying emotions convincingly.

Talk shows rely heavily on the personality and charisma of the RJ, who becomes the bridge between the station and the audience. Parallel to casting is music planning, which plays an equally significant role in shaping the mood of the programme. Background scores, signature tunes, jingles, and transitional music are carefully selected to complement the narrative. In dramas, sound effects and music create the setting and atmosphere, while in advertisements, catchy tunes ensure memorability.

Music also provides continuity, fills gaps, and prevents monotony in long programmes. Together, casting and music planning transform the written script into a vibrant, dynamic listening experience. Without suitable voices and sound design, even the best scripts may fail to capture attention. Thus, this stage ensures that the programme resonates emotionally and aesthetically with its intended audience.

#### 5. Scheduling

Scheduling is the organizational backbone of radio production, ensuring that all elements come together at the right time. It involves allotting studio time for rehearsals and recordings, coordinating with presenters, voice actors, and technical staff, and arranging equipment such as microphones, mixers, and sound consoles.

Scheduling also requires synchronizing music libraries, sound effects, and other resources needed for smooth production. Beyond the studio, broadcast scheduling is equally critical. Producers must decide the most effective time slots for airing a programme, keeping in mind audience availability and listening habits. For example, news bulletins are often scheduled during mornings and evenings, while

entertainment shows dominate afternoon or late-night slots. Advertisers also prefer prime-time scheduling to maximize reach.



Moreover, public service messages may be placed during high-listenership hours to achieve greater impact. Effective scheduling ensures there are no clashes, delays, or technical interruptions, maintaining the station's credibility. Since radio is a time-sensitive medium, every second matters. Poor scheduling can disrupt programming flow and alienate listeners. Therefore, careful planning of studio usage, human resources, and broadcast slots ensures efficiency, consistency, and maximum audience engagement, making it a vital step in radio production.

### **Logistical preparations**

Pre-production involves numerous practical arrangements. You need to book recording studios, schedule interviews with guests, arrange technical equipment, assign roles to team members, and secure permissions if recording at external locations. If you're producing a show about street food culture, you'd need to coordinate with vendors, arrange portable recording equipment, and perhaps get municipal permissions for on-location recording. Creating a detailed production schedule ensures everyone knows their responsibilities and deadlines.

### **Budget and resource allocation**

Even student radio projects have budgets, even if small. Pre-production includes estimating costs for equipment, transportation, refreshments for guests, music licensing fees, or hiring voice talents. Understanding your resource constraints helps you plan realistically and avoid mid-production surprises.

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## **6.3. 2. Production**

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This is the execution stage, where content is created. It includes:

### **1. Recording Voice**

Recording voice is one of the most crucial aspects of radio production, as the human voice is the primary carrier of information, emotion, and engagement for listeners. This stage involves using microphones, recording consoles, and soundproof studios to capture the voices of radio jockeys (RJs), announcers, actors, or interviewees. High-quality microphones, such as condenser or dynamic mics, are chosen depending on the nature of the programme.

For example, a dynamic microphone is ideal for live RJs due to its durability and background noise



rejection, whereas condenser microphones are preferred for drama or interviews where clarity and detail matter. Proper mic placement is also important, as it avoids distortion, plosives, and background interference. Beyond technical precision, voice recording also demands attention to vocal delivery. Announcers must articulate clearly, maintain an appropriate tone, and match the mood of the programme—serious for news, lively for entertainment, or emotional for drama.

Modern radio production also allows remote recordings, where voices can be captured outside the studio using portable recorders or even digital apps. Effective voice recording ensures the message is conveyed clearly and connects emotionally with the audience, making it the cornerstone of every radio programme.

## **2. Sound Effects (SFX)**

Sound effects (SFX) are essential in radio production because they provide realism, atmosphere, and dramatic impact. Since radio lacks visuals, SFX help listeners create a mental picture of the scene being described. For instance, the sound of footsteps immediately signals movement, while rainfall creates a mood of nature or melancholy. Similarly, crowd cheers, honking vehicles, or door creaks enrich storytelling and make a programme more immersive. In dramas, SFX help establish settings—such as a marketplace, a battlefield, or a quiet room—without needing long verbal descriptions. Producers can use either prerecorded effects from sound libraries or create —live effects inside the studio using simple props, a technique called —foley. For example, crumpling paper can simulate fire crackling, while coconut shells can mimic horse hooves. With digital technology, SFX can be layered, edited, or enhanced using software to achieve professional quality. Importantly, SFX should be used carefully—they must complement the narrative without overpowering the dialogue or music. Timing, volume control, and relevance are key considerations in their application. When used effectively, sound effects transform a simple script into a vivid listening experience, helping radio truly become a —theatre of the mind.

## **3. Music**

Music plays a multifaceted role in radio production, going beyond entertainment to act as a structural and emotional tool. Every station develops its own identity through music, using signature tunes, jingles, and background tracks that enhance recall and brand recognition. In radio dramas, music



establishes mood and tone—sad melodies can evoke tragedy, while upbeat tracks create excitement or joy. Background music also helps maintain flow, filling pauses between dialogue or transitioning smoothly between programme segments. For talk shows, subtle instrumental music prevents monotony and sustains listener interest. In advertising, catchy jingles are carefully designed to remain memorable and reinforce brand messages. Radio also uses music to signal different programme segments: opening themes introduce shows, while closing tunes provide closure. Careful selection of music is critical; it should match the audience's preferences, regional culture, and programme objectives. For instance, community radio stations may emphasize folk and regional music, while commercial FM focuses more on popular film songs and global tracks. Technological advancements now allow digital libraries and licensing platforms, giving producers access to diverse tracks. Thus, music in radio production is both an art and a strategy, shaping emotional connection and programme identity.

#### **4. Mixing**

Mixing is the process of combining various sound elements—voices, music, and sound effects—into a coherent and balanced final output. It is often considered the most technical and creative stage of radio production. Mixing can be done live during broadcasts or pre-recorded using digital audio workstations (DAWs) like Adobe Audition, Pro Tools, or Audacity. The aim is to ensure clarity, balance, and harmony among different audio components. For example, the RJ's voice must always remain clear and dominant, while background music should be audible but not overpowering. Sound effects need to blend naturally with dialogue, enhancing realism without distraction. Equalization (EQ) is used to adjust frequencies, ensuring voices sound natural and crisp. Compression maintains consistent volume levels, preventing sudden loudness or faintness. Panning allows sounds to be placed across stereo channels, giving depth and spatial quality. Fades and crossfades create smooth transitions between songs or programme segments. Skilled mixing ensures a professional and polished output, enhancing the listener's experience. In live radio, real-time mixing requires quick reflexes and precision, while pre-recorded programmes allow greater creative experimentation. Ultimately, mixing transforms raw sound elements into a finished product that reflects both technical excellence and creative vision.

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#### **6.3.3. Post-Production**

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**This stage refines the raw recordings:**





## 1. Editing

Editing is one of the most important stages of radio production because it ensures the final programme is clear, polished, and error-free. During recording, mistakes, long pauses, background noises, or irrelevant portions may occur, which can disrupt the listener's experience. Editing helps remove these flaws and tighten the flow of the program. Using modern Digital Audio Workstations (DAWs) like Adobe Audition, Audacity, or Pro Tools, producers can cut, copy, rearrange, and refine recorded audio. For example, in a radio drama, if an actor stumbles over a line, the mistake can be seamlessly deleted or replaced. Similarly, in interviews, only the most relevant and impactful parts are retained, keeping the programme engaging and within the required duration. Editing also includes noise reduction, removing—ums! and —ahs, and adjusting timing to match the rhythm of the broadcast. With non-linear digital editing, producers can work with multiple tracks, layering voice, music, and effects efficiently. Good editing requires not just technical skills but also judgment, ensuring the content remains natural and authentic while achieving professional smoothness. By refining the raw material into a polished audio product, editing plays a crucial role in maintaining the credibility and quality of radio programmes.

## 2. Balancing

Balancing is the process of adjusting volume levels so that all sound elements—voice, music, and sound effects—blend harmoniously without one overpowering the other. In radio, clarity is essential; the listener must always understand the spoken word, while music and effects serve to complement, not compete with, the dialogue. Balancing involves careful control of gain, equalization (EQ), and dynamic range. For example, the RJ's voice is usually prioritized, kept slightly louder than background music, while sound effects are adjusted to appear realistic yet subtle.

Poor balancing can ruin an otherwise well-produced program: if the music is too loud, it may drown out speech; if effects are too soft, they may lose their impact. Modern digital consoles and software allow precise control of levels, enabling smooth fades, crossfades, and consistent output across the program. Balancing also ensures consistency across multiple segments, so listeners do not need to adjust their volume constantly. In live broadcasts, engineers perform balancing in real time, which requires quick reflexes and experience. Effective balancing enhances the listener's comfort, creates



emotional impact, and ensures that all elements contribute equally to the storytelling. It is both a technical necessity and an artistic skill in radio production.

### **3. Finalizing**

Finalizing is the last stage of radio production, where all elements are polished and the programme is prepared for broadcast. Once editing and balancing are complete, the audio is exported into the desired format, typically MP3, WAV, or AAC, depending on the station's technical requirements. This stage also involves mastering—applying final adjustments like normalization, equalization, and compression to ensure the audio sounds professional and consistent across different devices and broadcast systems.

For example, a programme should sound equally clear whether played on a car stereo, a small radio receiver, or an online stream. Metadata, such as track names, episode numbers, or jingles, may also be added for organizational purposes. In commercial radio, finalizing also includes inserting sponsor messages, advertisements, or legal disclaimers. For live broadcasts, finalizing means conducting a final check of all systems, ensuring equipment, playlists, and backup tracks are ready.

In pre-recorded shows, the finalized audio is scheduled in the automation software for transmission. Finalizing ensures there are no technical glitches and that the broadcast maintains the station's professional image. By turning raw recordings into a ready-to-air product, this stage completes the cycle of radio production, bridging creativity with technical precision.

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## **Essential Elements of Radio Production**

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### **1. Voice**

The human voice is the most important element of radio. The RJ, announcer, or actor must use tone, pitch, pace, and pauses effectively to convey emotion and maintain listener interest.

### **2. Music**

Music sets the mood, creates rhythm, and gives identity to programmes. Signature tunes (jingles, station IDs) make radio memorable.

### **3. Sound Effects**

Sound effects provide realism, dramatization, and atmosphere. They help listeners visualize



scenes, especially in radio drama and features.

#### 4. Silence

Strategic pauses can emphasize meaning and create dramatic effect.

#### 5. Technology

Modern radio production relies heavily on equipment such as microphones, mixers, editing software (Audacity, Adobe Audition, Pro Tools), and broadcasting consoles.

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### 6.4 Summary

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Radio production is both an art and a science. The art lies in creativity, storytelling, and audience engagement, while the science involves sound engineering, editing, and broadcasting technology. From the early monopoly of All India Radio to today's mix of public, private, and community stations, radio in India has transformed into a vibrant industry. Despite challenges from digital platforms, radio retains its relevance through its affordability, local connect, and emotional intimacy with audiences.

The basics of radio production—voice, music, sound, planning, and creativity—continue to form the backbone of successful broadcasting. With the rise of podcasts, internet streaming, and digital radio, the skills of radio production remain as important as ever, adapting to new technologies while retaining timeless principles.

Radio production is the process of creating audio content for broadcast on radio stations. It involves combining **voice, music, sound effects, and scripting** to produce programs that inform, educate, and entertain listeners. Effective radio production requires both **creative and technical skills**, as the quality of content, sound, and presentation directly influences listener engagement.

The radio production process can be divided into three main stages:

1. **Pre-Production** – Planning the program, writing scripts, selecting music and sound effects, and organizing the production team.
2. **Production** – Recording voices, live sessions, and sound elements using microphones, mixers, and other equipment.
3. **Post-Production** – Editing, mixing, and finalizing the audio content to ensure clarity, balance,



and quality before broadcast.

Key roles in radio production include producers, directors, presenters, sound engineers, and editors, each contributing to the program's success. Technical aspects, such as sound quality, microphone techniques, and audio mixing, are crucial for creating a professional and engaging program.

Radio production also emphasizes audience targeting, as programs are designed to meet the interests and preferences of specific demographics. Ethical and legal considerations, including copyright rules and broadcasting standards, are essential to ensure responsible content delivery.

In essence, radio production is a blend of art and technology, aiming to create compelling audio experiences that connect with listeners and enhance the station's reach and reputation.

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### 6.5 Keywords

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- Presenters/Anchors
- Audience Engagement
- Broadcast Standards
- Technical Equipment
- Content Planning
- Music Selection

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### 6.6 Check your progress

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1. Which of the following is the first stage of radio production?
  - a) Production
  - b) Post-Production
  - c) Pre-Production
  - d) Broadcasting
2. Who is primarily responsible for planning and organizing a radio program?
  - a) Sound Engineer



b) Producer

c) Presenter

d) Editor

3. Which of the following is NOT a part of post-production?

a) Editing

b) Mixing

c) Recording live sessions

d) Finalizing audio content

• Sound effects and background music are used to:

a) Increase production costs

b) Engage and enhance listener experience

c) Replace the presenter

d) Reduce scriptwriting needs

• Which equipment is essential for capturing audio in radio production?

a) Camera

b) Microphone

c) Projector

d) Scanner

• Voice modulation in radio production helps to:

a) Make the content boring

b) Enhance clarity and expressiveness

c) Reduce recording time

d) Eliminate background noise



- The role of an editor in radio production is to:
  - a) Write the script
  - b) Manage finances
  - c) Edit and finalize audio content
  - d) Conduct interviews
- Audience engagement in radio production is influenced by:
  - a) Content quality and presentation
  - b) Number of microphones
  - c) Length of the radio station license
  - d) Type of broadcast tower
- Which of the following is an ethical consideration in radio production?
  - a) Using copyrighted music without permission
  - b) Accurate and responsible content
  - c) Ignoring listener feedback
  - d) Overloading advertisements
- Mixing in radio production is done to:
  - a) Adjust sound levels and combine audio elements
  - b) Write the program script
  - c) Select the broadcasting frequency
  - d) Schedule advertisements

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## 6.6 Answers

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- 1 c) Pre-Production
- 2 b) Producer



- 3 c) Recording live sessions
- 4 b) Engage and enhance listener experience
- 5 b) Microphone
- 6 b) Enhance clarity and expressiveness
- 7 c) Edit and finalize audio content
- 8 a) Content quality and presentation
- 9 b) Accurate and responsible content
- 10 a) Adjust sound levels and combine audio elements

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### 6.8 Self Assessment

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1. What is radio production, and why is it important in broadcasting?
2. Name and explain the three main stages of radio production.
3. What is the role of a producer in radio production?
4. How does a sound engineer contribute to a radio program?
5. Why is voice modulation important for radio presenters?

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### 6.9 References and Suggested Readings

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- Crisell, A. (2002). *An Introduction to Radio Journalism* (2nd ed.). London: Routledge.
- Starkey, G. (2014). *Radio in Context* (2nd ed.). London: Palgrave Macmillan.
- Keith, M. C. (2010). *The Radio Station: Broadcast, Satellite & Internet* (7th ed.). Burlington, MA: Focal Press.
- Hendy, D. (2013). *Radio in the Global Age*. Cambridge: Polity Press.
- Ranganathan, M., & Rodrigues, U. (2015). *Indian Media in a Globalized World*. New Delhi: Sage Publications.



SUBJECT: ELECTRONIC MEDIA (SPECIAL PAPER-1) RADIO	
COURSE CODE: MSM-523 B	AUTHOR: DR. SHIPRA DUA
LESSON NO.: 7	
Radio Equipment	

## STRUCTURE

- 7.1 Learning Objectives
- 7.2 Introduction
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  - 7.3.1 Pre -Production
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- 7.7 Answers to Check Your Progress
- 7.8 Self-Assessment Test
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### 7.1 Learning Objectives

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- To understand the purpose and significance of various radio equipment used in broadcasting.
- To identify different types of radio equipment, including microphones, mixers, transmitters, and audio processors.





- To learn the functions and working principles of each piece of equipment in the radio production process.
- To understand how radio equipment contributes to capturing, editing, mixing, and transmitting audio effectively.
- To develop awareness of technical standards and quality requirements in radio broadcasting.

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## 7.2 Introduction

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Radio broadcasting is a unique form of mass communication that relies heavily on audio signals to inform, educate, and entertain listeners. Unlike television, newspapers, or online media, radio engages audiences through sound alone, making the quality and precision of its equipment critically important. From capturing voices to transmitting signals across vast distances, radio equipment ensures clarity, reliability, and consistency in delivery. A well-equipped radio station is capable of producing live shows, pre-recorded programs, advertisements, and news bulletins that resonate with diverse audiences.

The evolution of radio technology has transformed the industry from the early days of simple AM transmitters to sophisticated digital studios, satellite broadcasting, and internet streaming. In India, institutions like All India Radio (AIR) and private FM networks rely on a combination of modern and traditional equipment to reach millions of listeners. Each piece of equipment in a radio station, whether it is a microphone, transmitter, mixing console, or automation software, plays a specific role in the production and broadcast chain. Understanding the functions, types, and technical specifications of these devices is crucial for anyone involved in radio production, from RJs and producers to sound engineers.

### 1. Microphones

Microphones are the primary interface between human voices and radio transmission. Microphones have come a long way from the time when they were

often wrapped in asbestos or cooled with water so as not to singe the lips of performers who got too close.

At small stations the console operator is frequently expected to set up equipment for studio interviews, discussions, and taping sessions. He must therefore be familiar with microphone



types ,capabilities and pattern as well as fundamental studio acoustics. A Properly equipped radio station will have several types of microphones ,each with its advantages and disadvantages .

Basic microphone pick up patterns and their configurations are as follows:

- **Unidirectional microphones / cardioid microphones** are appropriate for one or two people speaking side by side. Background noise is undesirable. These are also called cardioids microphones because of their heart-shaped pick-up pattern. Commonly used in radio studios for individual RJs, podcasts as they focus on the speaker's voice and reduce background noise.
- **Bi-directional /Figure 8 Microphones** are used when two people directly facing each other. They are figure 8 microphones . This type of microphones capture sound primarily from front and rear
- **Super cardioid and Hyper cardioid Microphones** are Even more directional than cardioid mics, with narrow pickup angles. They are Suitable for noisy environments or live outside broadcasts where precise sound capture is needed.
- **Omni-directional microphones** are used for recording ambient sounds, background noise and capture sound equally from all directions (360degrees). These type of microphones are being used for group discussions or choir performances.
- **Shotgun Microphones** are Highly directional; ideal for capturing sound from a distance while minimizing ambient noise. This type of microphones are frequently used in field reporting, sports coverage, and outdoor events.

#### Types of Microphones Based on Directionality

Pattern configuration	Best Use
Uni-Directional / <b>cardioid microphones</b>	Announcing , Narration, light instrumental and vocal pickup
Bi Directional /figure 8	Across the table interview ,two facing music



	sources
Omni Directional	Remotes, News Sports, hands held, Interviews, large music groups
Shotgun	Picking up sound from the long distance

There are many variations and combinations of the preceding fundamental patterns as well as different degrees of microphone response. Microphones are classified within their types as to how and where they are to be used : for music or speech ,for close or distant pickups , wired or wireless, stand mounted ,held in the hand ,worn around the neck. Broadcast quality microphones are classified too, according to the type of internal construction which affects their response to particular kinds of sound.

### 1. Dynamic Microphones

The most rugged and most used is the dynamic microphone, which operates on sound pressure and is noted for its bright ,articulate quality. In response to sound pressure the motion of the diaphragm in the dynamic microphone causes a small coil to move back and forth in the field created by the magnet surrounding the diaphragm, Open to free air pressure on only one side the diaphragm is moved by the difference in internal pressure between the front and rear of the microphone.

These microphones are constructed with one or a combination of all pick up patterns. The shotgun microphone used to select sound from distant sources , is a class of dynamic microphone with a super cardioid pattern and a more limited directional pattern than the usual cardioid. In radio, dynamic microphones are often used in FM stations for talk shows and live presentations where clarity and durability are crucial. They do not require external power sources, making them easy to set up and maintain. While they may not capture the same level of detail as condenser microphones, their reliability, longevity, and resilience to feedback make them indispensable in professional and community radio stations alike.



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## 2. Condenser Microphones

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A Condenser microphone is a type of dynamic microphone because it is activated by pressure but it contains different and more sensitive type of device. Condenser microphones are manufactured with anyone of the possible directional characteristics or may have four switchable patterns built into one : omni- directional, bi directional, cardioid .

These microphones are most frequently used for high quality studio and recording work. In the past they were confined to studio usage because they needed a bulky power supply box and cable to supply the high voltage power needed to polarize the diaphragm. Condenser microphones require external power, typically provided via phantom power from a mixing console or dedicated power supply. This power enables them to capture a wide frequency range and subtle tonal variations, which is particularly important for radio dramas, talk shows, and news readings. In studios, they are preferred for vocal clarity, fidelity, and richness of sound. Their sensitivity allows for the capture of quiet sounds without amplification, making them suitable for high-quality production.



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### 3. Lapel Microphones

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Lapel microphones, also known as lapel microphones, are small, clip-on devices commonly used by presenters, reporters, and field personnel. Their compact design allows them to be attached discreetly to clothing, making them ideal for hands-free operation during interviews, live events, or on-location reporting. . Lapel microphones capture sound from a consistent distance relative to the speaker's mouth, ensuring stable audio levels and reducing variations caused by movement. In radio production, they are particularly useful for outdoor interviews, panel discussions, and talk shows where mobility is required. These microphones often use omnidirectional or cardioid pickup patterns to capture speech clearly while minimizing environmental noise. .

Lapel microphones can be wired or wireless, with wireless versions providing greater flexibility and freedom of movement without tethering the presenter to a console. In India, FM stations and community radio stations rely on . Lapel microphones for on-the-spot reporting, live coverage, and interactive segments. Their ease of use, unobtrusive design, and consistent sound quality make them an essential tool for modern radio broadcasting, especially in dynamic or unpredictable field environments.



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### **Mixing Consoles (Audio Mixers)**

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Mixing consoles, also known as audio mixers, form the heart of any radio studio. They are devices that allow sound engineers to combine, manipulate, and control multiple audio sources such as microphones, music tracks, advertisements, and sound effects into a cohesive and balanced broadcast output. The mixer ensures that every element in a radio programme is heard clearly, at the right volume, and with proper tonal quality.

The primary function of a mixing console is volume control; each input channel has a fader or gain control to adjust the sound level of individual sources. Mixers also allow tone and frequency adjustment through equalization (EQ), which enhances clarity, warmth, or brightness in voices or music. Engineers can route audio to multiple outputs, including studio monitors, transmitters, recording devices, or headphones for live monitoring. Modern mixers also provide effects processing, such as reverb, delay, and compression, which add depth, creativity, and polish to programmes. In radio broadcasting, the mixing console is vital for both live shows and pre-recorded segments, ensuring seamless transitions between segments, advertisements, and music. Without a mixer, balancing multiple audio sources in a dynamic environment would be nearly impossible.



### Types of Mixing Consoles

Mixing consoles can be broadly classified into analog and digital mixers, each with distinct features and applications in radio broadcasting.

**Analog Mixers** are traditional devices that use physical circuitry to combine audio signals. They are reliable, straightforward to operate, and preferred in smaller radio stations, community radio, or educational setups. Analogue mixers provide tactile control through physical faders, knobs, and switches, which allow real-time adjustments of volume, tone, and routing. They are particularly appreciated for their simplicity, low latency, and consistent performance over time. However, they offer limited memory, less flexibility for complex routing, and fewer built-in effects compared to digital systems.

**Digital Mixers**, on the other hand, convert incoming analogue signals into digital data, enabling advanced processing, multi-track routing, and programmable control. These mixers offer features such as **scene recall**, digital effects, on-board compression, and noise gating. Digital consoles are ideal for professional FM stations, large studios, and live broadcasting environments where multiple sources must be managed efficiently. They allow engineers to store pre-sets for different programmes, automate transitions, and integrate seamlessly with computer-based recording or automation systems. Digital mixers also reduce the need for bulky equipment, streamline cabling, and enhance overall



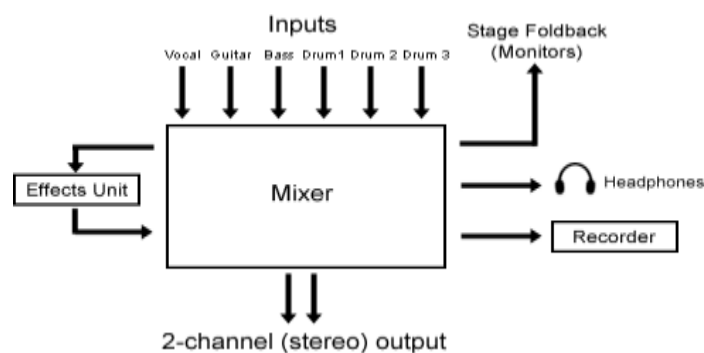
production quality, making them the preferred choice for modern radio operations.

Sound mixer is a device which takes two or more audio signals, mixes them together and provides one or more output signals. The diagram on the right shows a simple mixer with six inputs and two outputs.

As well as combining signals, mixers allow you to adjust levels, enhance sound with equalization and effects, create monitor feeds, record various mixes, etc.

Mixers come in a wide variety of sizes and designs, from small portable units to massive studio consoles. The term mixer can refer to any type of sound mixer; the terms sound desk and sound console refer to mixers which sit on a desk surface as in a studio setting.

Sound mixers can look very intimidating to the newbie because they have so many buttons and other controls. However, once you understand how they work you realise that many of these controls are duplicated and it's not as difficult as it first seems.



## Parts of Sound Mixer:

### Channels

Each input source comes into the mixer through a channel. The more channels a mixer has, the more sources it can accept. The following examples show some common ways to describe a mixer's complement of channels:

12-channel    12 input channels.

16x2            16 input channels, 2 output channels.

24x4x2        24 input channels, 4 subgroup channels and two output channels.





### Channel Inputs:

The first point of each channel's pathway is the input socket, where the sound source plugs into the mixer. It is important to note what type of input sockets are available —the most common types are XLR, 6.5mm Jack and RCA. Input sockets are usually located either on the rear panel of the mixer or on the top above each channel.



There are no hard-and-fast rules about what type of equipment uses each type of connector, but here are some general guidelines:

Microphones and some audio devices. Usually balanced audio, but XLRs can also accommodate unbalanced signals.

Musical instruments such as electric guitars, as well as various audio devices. Mono jacks are unbalanced, stereo jacks can be either unbalanced stereo or balanced mono.

Musical devices such as disc players, effects units, etc.

### Input Levels:

The level of an audio signal refers to the voltage level of the signal. Signals can be divided into three categories: Mic-level (low), line-level (a bit higher) and loudspeaker-level (very high). Microphones produce a mic-level signal, whereas most audio devices such as disc players produce a line-level signal. Loudspeaker-level signals are produced by amplifiers and are only appropriate for plugging into



a speaker — never plug a loudspeaker-level signal into anything else.

Sound mixers must be able to accommodate both mic-level and line-level signals. In some cases there are two separate inputs for each channel and you select the appropriate one. It is also common to include some sort of switch to select between inputs and/or signal levels.



### Input Sockets and Controls:

The example on the right shows the input connections on a typical mixer. This mixer has two input sockets — an XLR for mic-level inputs and a 6.5mm jack for line-level inputs. It also has a pad button which reduces the input level (gain) by 20dB. This is useful when you have a line-level source that you want to plug into the mic input.

Some mixers also offer RCA inputs or digital audio inputs for each channel. Some mixers provide different sockets for different channels, for example, XLR for the first 6 channels and

RCA for the remainder.



### Channel Equalization:

Most mixers have some of sort equalization controls for each channel. Channel equalizers use knobs (rather than sliders), and can be anything from simple tone controls to multiple parametric controls.

The first example on the right is a simple 2-way equalizer, sometimes referred to as bass/treble or low/high. The upper knob adjusts high frequencies (treble) and the lower knob adjusts low frequencies (bass). This is a fairly coarse type of equalization, suitable for making rough adjustments to the overall tone but is not much use for fine control.

This next example is a 4-way equalizer. The top and bottom knobs are simple high and low frequency adjustments (HF and LF).

The middle controls consist of two pairs of knobs. These pairs are parametric equalizers each pair works together to adjust a frequency range chosen by the operator. The brown knob selects the



frequency range to adjust and the green knob makes the adjustment.

The top pair works in the high-mid frequency range (0.6KHz to 10KHz), the lower pair works in the low-mid range (0.15 to 2.4KHz).

The "EQ" button below the controls turns the equalization on and off for this channel. This lets you easily compare the treated and untreated sound.

It is common for mixers with parametric equalizers to combine each pair of knobs into a single 2-stage knob with one on top of the other. This saves space which is always a bonus for mixing consoles.

### Pre / Post Fader



The auxiliary output from each channel can be either *pre-fader* or *post-fader*.

A *pre-fader* output is independent of the channel fader, i.e. the auxiliary output stays the same level whatever the fader is set to.

A *post-fader* output is dependent on the fader level. If you turn the fader down the auxiliary output goes down as well.

Many mixers allow you to choose which method to use with a selector button. The example pictured right shows a mixer channel with four auxiliary channels and two pre/post selectors.

Each selector applies to the two channels above it, so for example, the button in the middle makes both Aux 1 and Aux 2 either pre-fader or post-fader.

### Pan

Almost all stereo mixers allow you to assign the amount of panning. This is a knob which goes from full left to full right.



### Channel Faders:

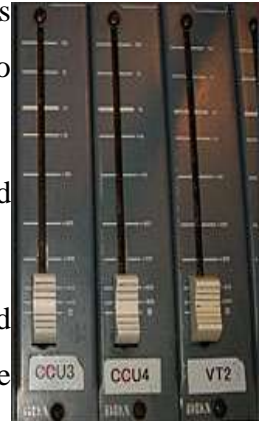
Each channel has its own fader (slider) to adjust the volume of the channel's signal before it is sent to the next stage (subgroup or master mix).



A slider is a potentiometer, or variable resistor. This is a simple control which varies the amount of resistance and therefore the signal level. If you are able to look into the inside of your console you will see exactly how simple a fader is.

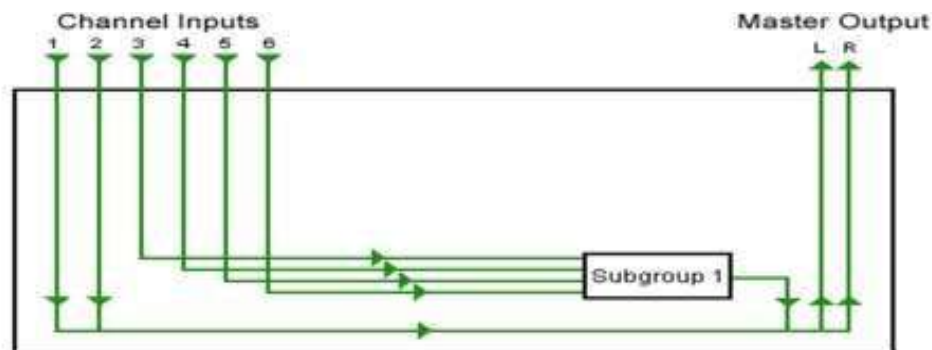
As a rule it is desirable to run the fader around the 0dB mark for optimum sound quality, although this will obviously vary a lot.

Remember that there are two ways to adjust a channel's level: The input gain and the output fader. Make sure the input gain provides a strong signal level to the channel without clipping and leave it at that level — use the fader for on-going adjustments



### Subgroups:

Subgroups are a way to "pre-mix" a number of channels on a sound console before sending them to the master output mix. In the following diagram, channels 1 and 2 are assigned directly to the master output bus. Channels 3,4,5 and 6 are assigned to subgroup 1, which in turn is assigned to the master output.



Subgroups have many uses and advantages, the most obvious being that you can pre-mix (sub-mix) groups of inputs.

For example, if you have six backing vocalists you can set up a good mix just for them, balancing each voice to get a nice overall effect. If you then send all six channels to one subgroup, you can adjust all backing vocals with a single subgroup slider while still maintaining the balance between the individual voices.

### Outputs:



The main output from most mixing devices is a stereo output, using two output sockets which should be fairly obvious and easy to locate. The connectors are usually 3-pin XLRs on larger consoles, but can also be 6.5mm TR (jack) sockets or RCA sockets.

The level of the output signal is monitored on the mixer's VU meters. The ideal is for the level to peak at around 0dB or just below. However you should note that the dB scale is relative and 0dB on one mixer may not be the same as 0dB on another mixer or audio device. For this reason it is important to understand how each device in the audio chain is referenced, otherwise you may find that your output signal is unexpectedly high or low when it reaches the next point in the chain.

In professional circles, the nominal level of 0dB is considered to be +4 dBu. Consumer-level equipment tends to use -10 dBV.

The best way to check the levels of different equipment is to use audio test tone. Send 0dB tone from the desk and measure it at the next point in the chain.



SUBJECT: ELECTRONIC MEDIA (SPECIAL PAPER-1) RADIO	
COURSE CODE: MSM-523 B	AUTHOR: DR. SHIPRA DUA
LESSON NO.: 8	
Radio Equipment	

## STRUCTURE

- 8.1 Learning Objectives
- 8.2 Introduction
- 8.3 Concept of Transmission
  - 8.3.1 Amplitude Modulation
  - 8.3.2 Frequency Modulation
- 8.4 Summary
- 8.5 Keywords
- 8.6 Check your progress
- 8.7 Answers to Check Your Progress
- 8.8 Self-Assessment Test
- 8.9 References and Suggested Readings

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### 8.1 Learning Objectives

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- To know about the basic concept of transmission in broadcasting
- To identify the different types of radio transmission process
- To recognize the significance of transmission range
- To understand the role of transmission towers and frequency allocation in effective broadcasting



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## 8.2 Introduction

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Radio transmission is the process of sending audio signals (such as speech or music) from a broadcasting station to listeners using electromagnetic waves. These waves travel through the air and can be received by radios, car stereos, or mobile devices equipped with radio receivers.

### Basic Components of Radio Transmission

1. **Transmitter** – Converts sound (voice, music, etc.) into electrical signals.
2. **Modulator** – Combines these electrical signals with a radio frequency (RF) carrier wave.
3. **Antenna (Transmitting)** – Radiates the modulated signals into space as electromagnetic waves.
4. **Medium** – Air or space through which the radio waves travel.
5. **Antenna (Receiving)** – Captures the transmitted waves.
6. **Receiver** – Demodulates the signals and converts them back into sound.

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### Types of Modulation in Radio Transmission

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- **AM (Amplitude Modulation):** Sound information is carried by varying the strength of the wave. It can travel long distances but has lower sound quality and is prone to static.
- **FM (Frequency Modulation):** Information is carried by changing the frequency of the wave. It has better sound clarity but shorter range than AM.

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### Transmission Methods

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- **Terrestrial Transmission:** Uses ground-based towers for AM/FM broadcasts.
- **Satellite Transmission:** Uses satellites to beam signals over wide areas.
- **Digital & Internet Radio:** Uses digital signals or the internet for clearer, modern broadcasting.

### Key Features of Radio Transmission

- Wireless and inexpensive.
- Real-time delivery.



- Wide coverage (local, national, or global).
- Works on the principle of electromagnetic wave propagation.

Radio Broadcasting can be described as the dissemination of radio communication intended to be received primarily by the public.

The international telecommunication union (ITU) which has a membership of about 150 countries agrees how to carve up and use all portions of the radio spectrum and designates which band will be utilized on the world basis for a particular function-such as radio navigation, satellite communication and any other frequency usage which might interfere with each nation's broadcasting. Radio spectrum in great demand for many services beyond public oriented radio broadcasting.

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### **AM (Amplitude Modulation)**

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Both AM (Amplitude Modulation) and FM (Frequency Modulation) broadcasting system and prevalent in the most countries, although in India FM Broadcasting is a new phenomenon.

In a sound wave amplitude is loudness and frequency is pitch. In AM the signal modifies the amplitude of a constant frequency carrier wave. The signal is transmitted in the modified form.

To recover the original signal at the receiving set, it must be amplitude demodulated, that is the modulation has to be reversed.

In amplitude modulation(AM) the sound of program being transmitted modulates (increases or decreases) the amplitude (height) of the carrier wave. Amplitude may be perceived as power , strength or intensity.

#### **Long- Range Coverage**

One of the most significant advantages of AM (Amplitude Modulation) radio is its long-range coverage, which allows broadcasts to reach audiences far beyond the immediate vicinity of the transmitter. AM signals, particularly in the medium-wave (MW) and long-wave (LW) bands, can propagate over hundreds of kilometers

In Frequency Modulation (FM) the amplitude of the wave remains constant, but the frequency (wave length)changes.





The steel tower of an AM radio station antenna emits radio waves in all directions even straight up. Antenna height is determined by the wave length of a station frequency, with the most effectiveness at .58 of the particular wave length.

If a station has a directional pattern in order not to interfere with the service pattern of another station, it will have two or more towers as part of the antenna system. The station with a single tower, sometimes called ‘stick’ covers all directions with three kinds of waves ground, direct and sky.

**Ground Waves** It follow the curve of the earth and aided by direct waves, provide the AM station primary services free of fading .The ground waves of an AM station is supported by a ground system of wide copper bands buried in the ground.

**Direct Waves** Those propagated by the line of sight and go in a straight line from transmitter to receiver, limited by the curvature of the earth. In AM , they may be considered as a part of the ground system.

**Sky Waves** provide a station secondary and consist a medium frequency waves which are reflected back to earth . Sky waves make long distance night time AM coverage possible but they also create potential interference with other stations.

As a rule, the greater the power , the greater is station’s coverage. Additional formidable factors which may contribute to increased AM coverage include

- 1) A high antenna location
- 2) Absence of local obstruction such as high building or mountain
- 3) Moist soil at the antenna site
- 4) Favorable climate , free of natural or man static

A basic AM transmitter consists of an oscillator to generate a carrier wave, a modulator to combine the carrier with the audio signal, an amplifier to boost the signal strength, and an antenna to radiate the wave. Receivers require only a tuner, amplifier, and demodulator to extract the original message. This simplicity translates to low production and maintenance costs, which is particularly advantageous for developing regions or rural broadcasting initiatives. This technological simplicity is a major reason



why AM was historically used for mass communication worldwide and continues to serve remote areas, aviation, maritime communication, and emergency broadcasting effectively.

AM serves as a reliable platform for government announcements, public service messages, and disaster alerts, where reaching the maximum number of listeners is critical.

In India, All India Radio (AIR) uses AM for medium-wave and shortwave transmissions, providing content in multiple languages and catering to rural populations that might not have access to FM or internet radio. Other specialized applications include aviation and maritime communication, where pilots and ships use AM radio frequencies to maintain clear contact over large distances. Despite the rise of FM and digital radio, AM continues to be indispensable for applications requiring wide-area coverage, accessibility, and reliability.

Despite its many advantages, AM radio has several limitations that affect audio quality and reception. The most notable drawback is its susceptibility to noise and static, caused by electrical equipment, atmospheric conditions, or natural phenomena like lightning. Since AM encodes information in the

amplitude of the carrier wave, any extraneous variation in amplitude directly affects the transmitted signal, degrading clarity

**Example in India:** All India Radio (AIR) primarily uses AM (MW and LW) to reach rural and remote areas, ensuring national coverage and accessibility.

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### Yuvvani

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The only radio station to be added during 1968, was parbhani in marathwada. The other development was the extension of commercial broadcasting to Calcutta and change in the timings of major Hindi and English bulletins to the present timings. The duration of news bulletins of 1969 was the commissioning of a 100 kw medium transmitter at Dibrugarh and the commissioning of a separate Yuv Vani (Youth) channel at Delhi by the Prime Minister Indira Gandhi on July 21. The other important development which followed two months later (September 22) was the commissioning of mega watt (1000 kw /mw) transmitter at Calcutta greatly improving the reception of AIR's external services in Nepal, East Pakistan (Now Bangladesh) and Burma.



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## FM (frequency Modulation) Broadcasting

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In FM , the carrier wave is of constant amplitude and the signal is coded in the frequency fluctuations around a central carrier frequency. To recover the original signal , it must be demodulated this time by frequency demodulation.

The FM system offers for a greater immunity from noise and interference from other channels than AM systems. FM requires a bandwidth of 200 KHZ compared to AM's 20 KHZ

The FM system was first applied to broadcasting by K.H. Armstrong during 1930's in the US. Today there are 12000 radio stations in the US alone, out of which 7000 are AM and 5000 FM stations.

Since FM signals are propagated only by direct line of sight , or an approximate maximum distance of 50 miles from antenna to horizon, an FM station obtains distance by placing its antenna as high as possible . Mountains , high buildings, even trees may obstruct FM signals . The range of an AM station, therefore, is determined by its power and height of antenna control the maximum transmitting range of each station. In FM the only function of the tower is to elevate and support the smaller circular FM antenna. The configuration of FM antenna depends upon whether they are intended to broadcast horizontal or vertical signals or a combination of both.

Polarized antenna provides better local reception, particularly in radios , although they may have to sacrifice some distance for the assured local coverage over difficult terrain.

FM waves are so short . FM station's coverage remains stable and consistent day and night, free of fading. Instead of overlapping, As AM signals may do the stronger FM stations completely blank out the staying signal of a weaker station.

One of the primary advantages of FM (Frequency Modulation) radio is its high audio quality, which provides listeners with clear, crisp sound suitable for music, talk shows, and entertainment programs. FM's wider bandwidth, typically around 150 kHz, allows transmission of high-fidelity audio, including stereo sound, which makes it ideal for musical programming and entertainment broadcasting. FM also supports dynamic range better than AM, allowing subtle audio nuances and effects to be preserved, creating a more enjoyable listening experience. Urban radio stations, in particular, rely on FM to deliver



music, cultural programs, and live shows in stereo sound, enhancing audience engagement. In India, private FM networks like Radio Mirchi, Red FM, and Radio City exploit FM's superior audio quality to attract urban and semi-urban listeners.

FM signals generally reach only 50–100 km from the broadcast tower, depending on terrain, antenna height, and transmitter power. Urban areas with tall buildings may experience signal shadowing, while hilly or mountainous regions can block reception, requiring additional relay stations or repeaters to maintain coverage. FM ideal for **local and regional broadcasting**, particularly in metropolitan cities and towns where high-fidelity audio is prioritized over extensive coverage.

In India, the privatization of FM in the 1990s led to the emergence of numerous commercial networks such as Radio Mirchi, Red FM, Radio City, Big FM, and Fever FM, which dominate entertainment and music broadcasting in metros and smaller towns. FM stations also support educational and public service programming, although their primary focus remains entertainment. Additionally, FM has extended into internet simulcasting, allowing stations to reach global audiences while retaining local content. Overall, FM's applications demonstrate its versatility and dominance in urban and semi-urban mass communication, offering both high-quality audio and localized programming

**Example in India:** Since privatization in the 1990s, FM has grown extensively in urban and semi-urban areas, with networks like Radio Mirchi, Red FM, and Radio City providing high-quality entertainment.

	<b>AM</b>	<b>FM</b>
<b>Stands for</b>	<b>AM</b> Stands for Amplitude Modulation	<b>FM</b> stands for Frequency Modulation
<b>Origin</b>	AM method of audio transmission was first successfully carried out in the mid 1870s.	FM radio was developed in the United states in the 1930s, mainly by Edwin Armstrong.
<b>Modulating differences</b>	In AM, a radio wave known as the "carrier" or "carrier wave" is modulated in amplitude by the signal that is to be transmitted. The	In FM, a radio wave known as the "carrier" or "carrier wave" is modulated in frequency by the signal that is to be transmitted.



	frequency and phase remain the same.	The amplitude and phase remain the same.
<b>Pros and cons</b>	AM has poorer sound quality compared with FM, but is cheaper and can be transmitted over long distances. It has a lower bandwidth so it can have more stations available in any frequency range.	FM is less prone to interference than AM. However, FM signals are impacted by physical barriers. FM has better sound quality due to higher bandwidth.
<b>Frequency Range</b>	AM radio ranges from 535 to 1705 KHz (OR) Up to 1200 bits per second.	FM radio ranges in a higher spectrum from 88 to 108 MHz. (OR) 1200 to 2400 bits per second.
<b>Bandwidth Requirements</b>	Twice the highest modulating frequency. In AM radio broadcasting, the modulating signal has bandwidth of 15kHz, and hence the bandwidth of an amplitude-modulated signal is 30kHz.	Twice the sum of the modulating signal frequency and the frequency deviation. If the frequency deviation is 75kHz and the modulating signal frequency is 15kHz, the bandwidth required is 180kHz.
<b>Zero crossing in modulated signal</b>	Equidistant	Not equidistant
<b>Complexity</b>	Transmitter and receiver are simple but synchronization is needed in case of SSBSC AM carrier.	Transmitter and receiver are more complex as variation of modulating signal has to be converted and detected from corresponding variation in



		frequencies.(i.e. voltage to frequency and frequency to voltage conversion has to be done).
<b>Noise</b>	AM is more susceptible to noise because noise affects amplitude, which is where information is "stored" in an AM signal.	FM is less susceptible to noise because information in an FM signal is transmitted through varying the frequency, and not the amplitude.

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### Satellite and DTH Radio

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Satellite and Direct-to-Home (DTH) radio represent modern advancements in radio broadcasting, offering nationwide and even global coverage. Unlike terrestrial radio, which relies on ground towers, satellite radio uses orbiting satellites to beam signals directly to receivers. This allows for high-quality, interference-free sound over vast distances, making it especially useful for countries with diverse geographies. In India, satellite radio gained attention with services like WorldSpace Radio in the early 2000s, which provided niche content across genres such as music, news, and education. However, due to financial challenges, the service was discontinued. Today, DTH platforms, such as Tata Play and Airtel Digital TV, carry All India Radio's Vividh Bharati, FM Gold, and regional services, ensuring uninterrupted access across the country. DTH radio does not require internet connectivity, making it accessible even in areas with poor telecom infrastructure. Satellite and DTH platforms also allow multiple channels to operate without frequency overlap, ensuring variety and quality. For rural and remote listeners, this medium provides reliable, 24x7 programming at minimal cost. While not as popular as FM or internet radio, satellite and DTH broadcasting remain important in ensuring comprehensive, wide-scale distribution of audio content in India.



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## 8.4 Summary

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Amplitude Modulation (AM) and Frequency Modulation (FM) are two primary techniques used in radio broadcasting to transmit audio signals. In **AM**, the amplitude of the carrier wave is varied in accordance with the audio signal, while the frequency remains constant. This allows the audio information to be carried over long distances. AM radio generally operates in the medium wave band of 535–1605 kHz, making it suitable for news, talk shows, and programs requiring wide coverage. Its main advantages include simplicity of technology and extensive reach, especially at night when signals can travel farther due to ionospheric reflection. However, AM signals are highly susceptible to **noise and interference** from electrical equipment, weather, and other radio signals, which often reduces sound clarity.

In contrast, **FM** works by varying the **frequency** of the carrier wave according to the audio signal, keeping the amplitude constant. FM radio operates in the **88– 108 MHz** band and is widely used for music and high-fidelity audio programs because it provides **superior sound quality** and is largely immune to amplitude- based noise. While FM signals offer excellent clarity, their range is relatively shorter compared to AM, and the technology is more complex. Both AM and FM play vital roles in broadcasting, with AM focusing on long-distance transmission and FM on high-quality audio experiences.

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## 8.5 Keywords

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- Amplitude Modulation (AM)
- Frequency Modulation (FM)
- Carrier wave
- Amplitude
- Frequency
- Medium wave band
- Radio broadcasting
- Sound quality



- Noise and interference
- Long-distance transmission
- High-fidelity audio

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## 8.6 Check your progress

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- 1. What does AM stand for?**
  - a) Analog Modulation
  - b) Amplitude Modulation
  - c) Audio Modulation
  - d) Advanced Modulation
- 2. In AM broadcasting, which property of the carrier wave is varied?**
  - a) Frequency
  - b) Wavelength
  - c) Amplitude
  - d) Phase
- 3. Typical frequency range of AM radio is:**
  - a) 88–108 MHz
  - b) 535–1605 kHz
  - c) 300–3000 MHz
  - d) 0–500 kHz
- 4. Which is an advantage of AM radio?**
  - a) High sound quality
  - b) Long-distance coverage





- c) Noise immunity
  - d) Short-range transmission
5. **What does FM stand for?**
- a) Frequency Modulation
  - b) Fast Modulation
  - c) Forward Modulation
  - d) Fine Modulation
6. **In FM broadcasting, which property of the carrier wave is varied?**
- a) Amplitude
  - b) Frequency
  - c) Wavelength
  - d) Phase
7. **FM radio typically operates in the frequency range of:**
- a) 535–1605 kHz
  - b) 88–108 MHz
  - c) 0–30 MHz
  - d) 300–3000 kHz
8. **Why is FM preferred for music broadcasting?**
- a) Longer range
  - b) Lower cost
  - c) High sound quality and less noise
  - d) Simpler technology
9. **Which of the following affects AM signal quality the most?**



- a) Frequency variation
- b) Amplitude noise and interference
- c) Bandwidth
- d) Modulation index

**10. Compared to AM, FM signals have:**

- a) Lower sound quality and shorter range
- b) Higher sound quality and shorter range
- c) Higher sound quality and longer range
- d) Same sound quality and range

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### 8.7 Answers to Check Your Progress

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- 1. b) Amplitude Modulation
- 2. c) Amplitude
- 3. b) 535–1605 kHz
- 4. b) Long-distance coverage
- 5. a) Frequency Modulation
- 6. b) Frequency
- 7. b) 88–108 MHz
- 8. c) High sound quality and less noise
- 9. b) Amplitude noise and interference
- 10. b) Higher sound quality and shorter range

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### 8.8 Self-Assessment Test

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- Q.1 What does AM stand for, and how does it transmit audio signals?
- Q.2 In AM, which characteristic of the carrier wave is varied?



Q.3 What is the typical frequency range of AM radio?

Q.4 List two advantages and two disadvantages of AM broadcasting.

Q.5 What does FM stand for, and how does it differ from AM?

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## 8.9 References and Suggested Readings

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- Bhatnagar, A. (2018). *Principles of Broadcasting*. New Delhi: Kalyani Publishers.
- Rappaport, T. S. (2021). *Wireless Communications: Principles and Practice*. Pearson Education.
- Singh, M. (2019). *Radio and Television Broadcasting*. New Delhi: PHI Learning.
- Agarwal, D. (2020). *Electronic Communication Systems*. McGraw Hill Education.



SUBJECT: ELECTRONIC MEDIA (SPECIAL PAPER-1) RADIO	
COURSE CODE: MSM-523 B	AUTHOR: DR. SHIPRA DUA
LESSON NO.: 9	
Community Radio in India: Scope and Functioning	

## **STRUCTURE**

- 9.1 Learning Objectives
- 9.2 Introduction
- 9.3 Community Radio in India
  - 9.3.1 The objectives of setting up Community Radio
  - 9.3.2 Scope of Community Radio
  - 9.3.3 Licensing and Regulations
  - 9.3.4 Functioning of Community Radio
  - 9.3.5 Challenges & Limitations
  - 9.3.6 Future Prospects
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- 9.5 Keywords
- 9.6 Check your progress
- 9.7 Answers to Check Your Progress
- 9.8 Self-Assessment Test
- 9.9 References and Suggested Readings



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## 9.1 Learning Objectives

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- To examine how community radio contributes to social, cultural, and economic development in rural and urban communities.
- To understand the basic technical requirements, transmission range, and equipment used in community radio stations.
- To understand how community involvement and participation enhance content relevance and social impact.

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## 9.2 Introduction

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Community radio is a type of radio service that caters to the interests of a particular area in need of mass awareness. The broadcasting material of community radio has to be popular to the local audience but can be a secondary issue for more powerful broadcast groups. In India, the campaign of Community radio started in the mid 1990s, soon after the Supreme Court of India approved the idea, passed on its judgment in the month of February 1995, and declared airwaves are public property. This notion of the Indian government was passed on as an inspiration to groups across the country and community radio started with only educational (campus) radio stations under somewhat strict conditions.

Anna FM is India's first campus 'community' radio that was launched on 1 February 2004, controlled by Education and Multimedia Research Centre (EM<sup>2</sup>RC) and the students of Media Sciences at Anna University produce all programs. On 16 November 2006, the government of India advised a set of new Community Radio Guidelines that allowed the NGOs and other civil society organizations to possess and operate community radio stations. According to government sources, about 4,000 community radio licenses had been on offer across India.

By 30 November 2008, the Ministry of Information and Broadcasting already received 297 applications for community radio licenses, including 105 from educational institutions, 141 from NGOs and other civil society organizations, and 51 for 'farm radio' stations to be run by agricultural universities and agricultural extension centres like the 'Krishi Vigyan Kendras'. Among these, 107 community radio stations have been approved for licensing through the issue of Letters of Intent. 13 Grant of Permission Agreements (GOPA) were signed with license applicants under the new scheme by the Indian



Government.

By 30 November 2008, there had been 38 operational community radio stations in India. Of these, NGOs and educational institutions control majority of the radio stations. The first community-based radio station in India was licensed to an NGO that was completely separate from campus-based radio and was launched on 15 October 2008. The 'Sangham Radio' in Pastapur village, Medak district, Andhra Pradesh state was switched on at 11.00am unanimously to hear the shows. Sangham Radio, which broadcasts on 90.4 MHz, is applicable to execute the Deccan Development Society (DDS). This is an NGO that works with women's groups in about 75 villages of Andhra Pradesh. 'General' Narsamma and Alcole Narsamma manage this community radio station. The second NGO-led community radio station in India was started on 23 October 2008 at 'TARAGram' in Orchha, Madhya Pradesh state.

This community radio channel was named 'Radio Bundelkhand' after the Bundelkhand region of central India where it was mainly broadcasted. This radio station is licensed to the Society for Development Alternatives (DA), a Delhi-based NGO. Under the new community radio policy accredited by the Government, any not-for-profit 'legal entity', other than individuals, political parties and their affiliates, criminal and banned organizations can also apply for a CR license. Central funding is not available for such radio stations, and there are stern limitations on fundraising from other resources. Only organizations that are registered for the minimum of three years old and with a 'proven' path record of local community service can apply. License conditions unreservedly favour well-established stations as against low-priced low power operations, several of which include Mana Radio in Andhra Pradesh and Raghav

FM in Bihar that run successfully on shoe-string budgets before the obligation of any community radio policy. Indian Government approved a community radio license that entitles the channel owners to operate a 100 watt (ERP) radio station, with a coverage area of almost 12 kilometers radius. A maximum antenna height of 30 meters is permissible and these radio stations are expected to produce at least 50% of their programs in the local range and the programs should be presented in the local language or dialect at the maximum extent.

The prime focus is on developmental programming, though there is no clear restriction on



entertainment. News programs are prohibited on community radio in India, as also on commercial FM radio. The government, however, has recently opened some new categories of news and varied forms of communication that are permitted on radio, including sports news and commentaries, information on traffic and weather conditions, exposure of cultural events and festivals, information on educational events, civic announcements adhering to the utilities like electricity and water supply, disaster warnings and health alerts. Five minutes of advertising per hour is allowed on the Indian community radio. Sponsored programs are strictly prohibited except when the program is sponsored by the Government at the Centre or State.

Activists and community workers coming from all across the country have gathered together under the sponsorship of the `Community Radio Forum` in order to organize training and support for community radio stations, as well as to maintain the petition for a more practical community radio policy. The Community Radio Forum, India, was registered as a `Society` and `Trust` on 26 February 2008. In the intervening time, mobile telephone operators have started to offer commercial broadcast services over GSM, escaping completely the government limitations built around traditional concepts of broadcasting technology, especially community radio in India.

Community radio is a localized, non-profit broadcasting service designed to serve specific communities by providing content that is relevant to their social, cultural, educational, and informational needs. Unlike commercial or public radio, which target broad audiences, community radio focuses on participatory communication, encouraging local involvement in content creation and decision-making. It is especially vital in countries like India, where rural populations, marginalized communities, and local cultures often remain underserved by mainstream media.

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### Community Radio in India

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Alongside private FM, the Government also promoted **community radio** as a tool for social development. These stations are typically run by educational institutions, NGOs, or local groups to serve grassroots communities.

- The first licenses were given in **2002**.
- Today, India has nearly **500 community radio stations**.



- **Uttar Pradesh** has the maximum number, followed by Maharashtra and Tamil Nadu.
- Community radios focus on **local issues, agriculture, women's empowerment, and education**, making them a crucial part of inclusive communication.

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### **The objectives of setting up community radio**

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The basic objective of the community radio broadcasting would be to serve the community in the service area of the license by involving members of the community in the broadcasting of their programmes. For this purpose, community would mean people living in the coverage zone of the broadcasting service of the license. The license will be issued for a period of three years. The license will not be transferable. An applicant will not be permitted more than one license. The license shall ensure that nothing is included in the programs which offends good taste & decency, contains criticism of friendly countries, contains attack on religions or community or which promote communal attitudes, contain anything defamatory.

The government or its authorized representative shall have the right to inspect the broadcast facilities of the licenses and collect such information as considered necessary in public and community interest. The government reserves the right to take over the entire services and networks of the license or revoke/terminate/suspend the license in the interest of national security or in the event of national emergency/'war similar type of situations.

The government reserves the right to modify at anytime the terms and conditions if it is necessary to do so in the interest of general public or for the proper conduct of broadcasting.

At the end, we can say that community radio has immense potential for the people and it will really prove to be alternative radio.

### **2. Scope of Community Radio**

The scope of community radio in India has expanded significantly since its formal recognition by the Ministry of Information and Broadcasting (MIB) in 2002. Its potential includes:

1. **Education and Awareness:** Community radio plays a crucial role in disseminating educational content, health awareness programs, agricultural information, and government schemes to local





populations. For instance, farmers receive updates on weather forecasts, crop management, and government subsidies.

2. **Cultural Preservation:** It serves as a platform to showcase local arts, music, folklore, and traditions, preserving indigenous culture and fostering cultural pride.
3. **Social Development:** Community radio supports social initiatives like women's empowerment, literacy campaigns, health programs, and civic awareness.
4. **Information Access:** It provides real-time news and updates relevant to local issues, disaster management, and community development programs.
5. **Participatory Communication:** Local residents actively participate as hosts, reporters, and content creators, ensuring programs reflect genuine community concerns.

### 3. Licensing and Regulation

The Government of India regulates community radio through specific licensing guidelines issued by the MIB. Key points include:

- **Non-profit orientation:** Stations are run by NGOs, educational institutions, or community-based organizations.
- **Coverage limit:** Usually restricted to a 10–15 km radius to serve local populations.
- **Content restrictions:** Stations must adhere to social, educational, and development-oriented content; commercial advertising is prohibited, though announcements and sponsorships are allowed.

The licensing process involves application, equipment verification, and compliance with technical and operational norms. The Wireless Planning and Coordination (WPC) wing provides the frequency allocation and technical approval for broadcasting.

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### 4. Functioning of Community Radio

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Community radio functions through a combination of technical infrastructure, human resources, and participatory programming:



1. Technical Infrastructure:

- Transmitter and antenna: Small FM transmitters broadcast signals within a 10–15 km radius.
- Studio setup: Includes microphones, mixing consoles, computers, and recording equipment.
- Internet integration: Some stations stream content online to reach wider audiences.

2. Human Resources:

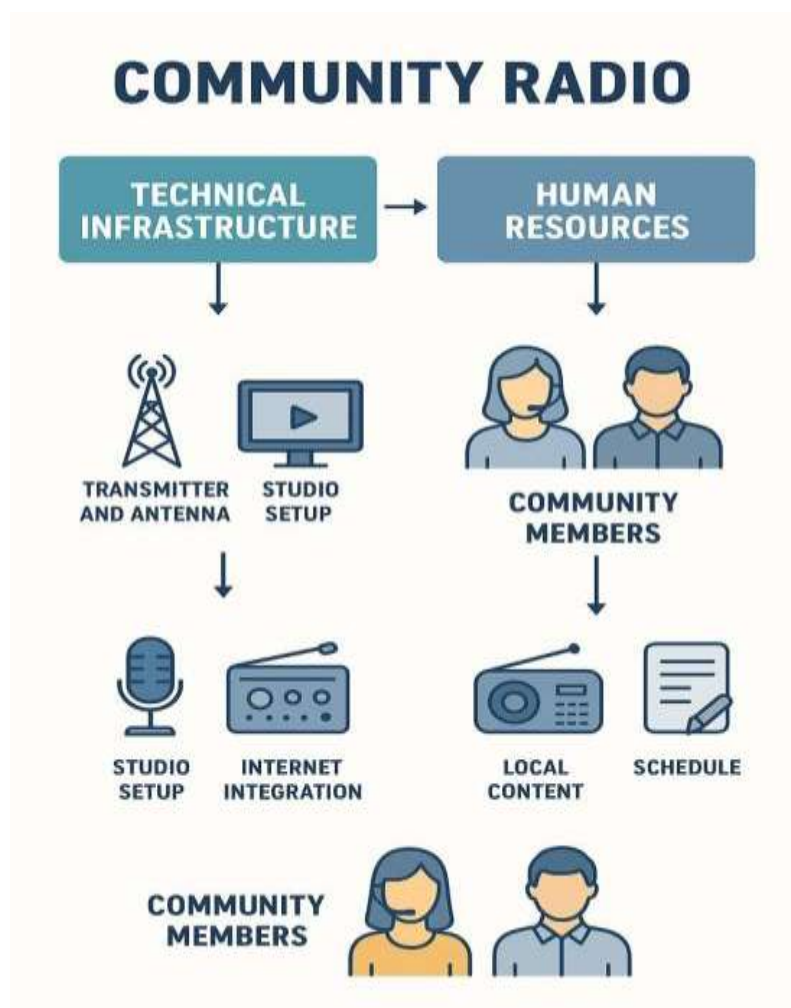
- Community members: Residents participate as volunteers, presenters, and reporters.
- Professional staff: Engineers, technical support, and trainers ensure smooth functioning.

3. Programming:

- Focused on local needs, such as agricultural guidance, health awareness, literacy, environmental issues, local governance, and cultural programs.
- Programs are produced in regional languages to maximize accessibility.
- Scheduling is flexible to accommodate community involvement and live programs.

4. Participatory Model:

- Community members contribute ideas, stories, and feedback.
- Regular interactions between the station and the audience help refine content, making it more relevant and engaging.



## 5. Challenges and Limitations

While community radio has immense potential, several challenges limit its full impact:

- **Funding constraints:** Non-profit nature limits access to resources for infrastructure, content production, and staff salaries.
- **Technical limitations:** Restricted transmission power and coverage radius reduce audience reach.
- **Content quality:** Limited professional expertise can affect production standards.
- **Regulatory hurdles:** Licensing and compliance procedures can be cumbersome for small NGOs or rural institutions.



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## 6. Future Prospects

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The future of community radio in India is promising, driven by policy support, technological advancements, and growing community awareness:

- Digital integration: Combining FM broadcasting with internet streaming expands reach beyond local areas.
- Collaborations: Partnerships with NGOs, universities, and government programs can improve content quality and sustainability.
- Capacity building: Training local volunteers in content creation, technical operations, and communication skills enhances station efficiency.
- Social impact: Community radio can continue contributing to literacy, health, environmental awareness, and civic engagement in rural and marginalized regions.

Community radio represents a powerful tool for grassroots communication and social development in India. By focusing on local content, participatory programming, and community engagement, it bridges the gap between mainstream media and rural or marginalized populations. Despite challenges related to funding, technical limitations, and regulatory processes, community radio continues to demonstrate its potential in education, cultural preservation, and social empowerment. Its growing recognition and adoption reflect its importance as a localized, inclusive, and participatory communication platform in India's diverse media landscape.

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## 9.4 Summary

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Community radio in India is a form of broadcasting that focuses on serving local communities, especially in rural and semi-urban areas. Unlike commercial or public broadcasting, its primary aim is to provide a platform for community participation, empowerment, and social development. Community radio enables local people to share information, express opinions, and address issues relevant to their lives, such as education, health, agriculture, environment, and cultural preservation. It is often managed by educational institutions, NGOs, or local organizations, allowing communities to take an active role in content creation and programming.



The Government of India regulates community radio through specific policies and licensing procedures to ensure that stations operate within defined technical standards and broadcast content appropriate for their audience. Community radio uses cost-effective technology with a limited transmission range, making it accessible and manageable for local groups. Its participatory approach helps in promoting awareness, civic engagement, and social cohesion, while also preserving local languages and cultural heritage. Despite challenges such as limited funding, coverage, and technical expertise, community radio continues to play a vital role in empowering communities, fostering dialogue, and supporting socio-economic growth across India.

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### 9.5 keywords

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- Community radio
- local communities
- Rural areas
- Semi-urban areas
- Participation
- Empowerment
- Social development

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### 9.6 Check Your Progress

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- a. What is the primary aim of community radio in India?
  - a) Commercial profit
  - b) Government propaganda
  - c) Community participation and social development
  - d) Entertainment only
- b. Which areas are mainly served by community radio in India?
  - a) Only metropolitan cities



- b) Rural and semi-urban areas
- c) International audiences
- d) Industrial zones
- c. Who typically manages community radio stations in India?
  - a) Private companies
  - b) NGOs, educational institutions, and local organizations
  - c) Multinational corporations
  - d) Government alone
- d. Which of the following is a key focus of community radio content?
  - a) Stock market updates
  - b) Health, education, agriculture, and cultural preservation
  - c) Celebrity gossip
  - d) Sports events
- e. Why is community radio considered cost-effective?
  - a) It uses low-cost equipment and limited transmission range
  - b) It charges high subscription fees
  - c) It broadcasts only advertisements
  - d) It avoids using technology
- f. Which government aspect regulates community radio in India?
  - a) Licensing norms and policies
  - b) International treaties
  - c) Taxation rules
  - d) Media censorship boards



- g. How does community radio empower local communities?
  - a) By broadcasting foreign content
  - b) By allowing community involvement in programming
  - c) By reducing local culture
  - d) By limiting public participation
- h. What challenge is often faced by community radio stations in India?
  - a) Limited funding and coverage
  - b) Too many employees
  - c) Excessive international interference
  - d) High licensing fees for commercial profit
- i. Which of the following is promoted through community radio?
  - a) Civic engagement and social cohesion
  - b) High commercial profit
  - c) Only national news
  - d) International music trends
- j. Community radio helps in preserving:
  - a) Global pop culture
  - b) Local languages and cultural heritage
  - c) Only urban lifestyles
  - d) Corporate advertising content

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### 9.7 Answers for Check your Progress

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- a. c) Community participation and social development



- b. b) Rural and semi-urban areas
- c. b) NGOs, educational institutions, and local organizations
- d. b) Health, education, agriculture, and cultural preservation
- e. a) It uses low-cost equipment and limited transmission range
- f. a) Licensing norms and policies
- g. b) By allowing community involvement in programming
- h. a) Limited funding and coverage
- i. Civic engagement and social cohesion
- j. b) Local languages and cultural heritage

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### 9.8 Self -Assessment Questions

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- Q.1 Define community radio and explain its purpose in India.
- Q.2 How does community radio differ from commercial and public broadcasting?
- Q.3 Who are the main stakeholders involved in running a community radio station?
- Q.4 List the key types of programs broadcasted on community radio.
- Q.5 How does community radio contribute to social, cultural, and economic development?

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### 9.9 References and Suggested Readings

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#### Books:

- Kumar, K. J. (2018). *Mass Communication in India*. New Delhi: Jaico Publishing.
- Singh, M. (2019). *Radio and Television Broadcasting*. New Delhi: PHI Learning.
- Bhatnagar, A. (2017). *Principles of Broadcasting*. New Delhi: Kalyani Publishers.
- Sharma, R. (2020). *Community Media in India: Issues and Challenges*. New Delhi: Sage Publications.

#### Journals & Articles:





- Kaur, P. (2018). —Role of Community Radio in Rural Development.‖ *Journal of Media Studies*, 10(2), 35–50.
- Raju, S. (2019). —Community Radio and Social Empowerment in India.‖ *International Journal of Communication Research*, 9(1), 12–22.

**Websites:**

- Prasar Bharati – Community Radio Guidelines
- Ministry of Information and Broadcasting, India – Community Radio
- All About Circuits – Radio Broadcasting

**Suggested Reading for Deeper Understanding:**

- Haykin, S. (2014). *Communication Systems*. Wiley.
- Couch, L. W. (2016). *Digital and Analog Communication Systems*. Pearson Education.



SUBJECT: ELECTRONIC MEDIA (SPECIAL PAPER-1) RADIO	
COURSE CODE: MSM-523 B	AUTHOR: DR. SHIPRA DUA
LESSON NO.: 10	
Writing for Radio	

## STRUCTURE

- 10.1 Learning Objectives
- 10.2 Introduction
- 10.3 Writing for Radio
- 10.4 Summary
- 10.5 Keywords
- 10.6 Check your progress
- 10.7 Answers to Check Your Progress
- 10.8 Self-Assessment Test
- 10.9 References and Suggested Readings

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### 10.1 Learning Objectives

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- To identify and analyze the target audience for effective communication.
- To learn to write **concise**, clear, and engaging scripts suitable for oral delivery.
- To understand how to maintain listener interest throughout the broadcast.
- Learn to revise scripts based on audience feedback, ratings, and engagement metrics.



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## 10.2 Introduction

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When we talk about radio writing, then it is important for us to know the elements of radio writing. As there is different style of writing because you watch tv, not doing anything else except watching television. Similarly when you read book then you cannot do anything simultaneously. But Most of the radio listeners are engaged in some other simultaneous activities as well. , you may be driving, cooking, reading, trying to sleep, a farmer may be tilling his land, a shopkeeper may be attending to his customers, may be travelling and so on. So this way writing for radio can not be same as writing for print and tv and other media. Now a writer should be more creative so that he/she can attract the listeners and retain the listeners.

Moreover, while reading newspaper, if we find any word difficult we can look it up in the dictionary or we can read again and again and keep for our records. But this is not possible while listening Radio. Hence, words being used in radio should be simple, easy and sentences should be short and meaningful. A radio script should be conversational and friendly.

Another important aspect is to know your audience. because there is a variety of listeners – from scholarly intellectuals to illiterates - so a radio writer has to find a balance in his writing to appeal to a wide spectrum of society.

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## Writing Codes for Radio

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**Encoding** -When an announcer, RJ, or broadcaster expresses a message through **language, tone, music, jingles**, or sound effects, they are sending their **thoughts and meaning** in a —coded form. This is called the **encoding process** — converting ideas into words and sounds for transmission.

**Decoding** -When the listener hears and understands that broadcast, they use their experience, language knowledge, and cultural background to interpret it.

That is the decoding process — understanding the meaning of the message.

The RJ says: —Good morning, friends! Wake up and start your day with a smile.!

- Here, the RJ encoded a sense of positivity and motivation using words and tone.
- The listener decoded that message by understanding and feeling the intended emotion.



Thus, radio communication follows the Shannon-Weaver Model of communication — where a message moves from sender to receiver through a channel, and feedback is received in the form of the listener's response.

When we talk face to face then these given three elements complete the conversation.

- Spoken words
- Facial expressions
- Body gestures such as hand movements

The person to whom we are talking decodes i.e. understands these. For instance, just by staring sternly, a father can convey his anger or disapproval to his child. A professor can stop a student from coming late to the class just by a movement of his hand. In the print medium, i.e. books, magazines, newspapers etc., written words, pictures, tables, graphs etc., work as 'codes' to take the message to the readers.

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### Basic Elements of Radio

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There are four basic elements which constitute radio programmes, i.e. whenever we listen to any programme of any radio station from any part of the world, and we shall hear only these four:

- Spoken words
- Sound effects
- Music
- Pause or Silence

**Spoken words** - Radio is an audio medium .it is called blind medium with no visuals . RJs reach a listener through a \_\_human voice' and thus are 'spoken words. These give a feel of human presence. These also reflect some aspects of the speaker's personality. Announcers make listeners visualize the scenes through their spoken words.

**Music** - Music also helps in developing the language of radio. For example, a musical piece of just 30 seconds, played as a \_\_signature tune', identifies the broadcast institution and the individual programme. The background music in a radio drama helps make a scene lively.



**Sound Effects** - We write what type of sound would be required at a given situation and what would follow. Sound is the entire means of communication in radio. Sounds help to create and enhance mental images. Sounds have the unique capability of creating an environment for the listener. Through the creative use of various writing and production techniques, entire world can be created in the human mind. Many techniques are available to create an environment with sound. Sound effects play an important role in specific programs like drama, documentary and story telling. Similarly, the effect of an opening or dropping curtain in a theatre is achieved by 'fade in' and 'fade out' of music in a radio drama.

**Pauses or Silence** - This may sound weird that silence and pause are also important in radio sometimes. Radio is a sound medium, but the absence of any sound is also an important part of the language of radio. Pause is an integral part of the grammar of radio. A pause in radio replaces the use of a comma or full stop in print. We use silence for pre role and post role also.

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### Writing for Radio vs Print medium

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There is a subtle difference between writing for radio and writing for print. Print is written medium and radio is an audio medium. For example, if we read newspaper then here we can write that turn the page or above facts are important but on the other hand we can not say below above in radio. Again, instead of mentioning dates on radio, the use of 'yesterday', 'the day before yesterday' or 'last week' or 'last month' etc. may be better suited as spoken language.

In radio, we make the listeners visualise the scene through spoken words as radio is an audio medium. But now the question arises that how to do that. For example "Her hands trembled as she held the faded photograph, the edges frayed like the fragile memories it held, and a tear traced a quiet path down her cheek." You can make comparisons like if you want to explain the height of Bakhra dam then you can compare that with the height of Kutub Minar. Then it will make a visual impact in a listener's mind.

Similarly, in print, we may say that the capitals of Japan, Malaysia and Indonesia are Tokyo, Kuala Lumpur and Jakarta, respectively. Still, on the radio, it will be appropriate to say that Tokyo is the capital of Japan, Kuala Lumpur is Malaysia's capital, and Jakarta is Indonesia's capital, thus avoiding using the word 'respectively'. We avoid using complex and complicated sentences in radio language.



Simple words and short sentences are the requirements of radio communication.

Likewise, while talking about history, instead of saying '1520 AD', it might be better to say approximately 500 years ago. Long figures such as 'Rupees 15 lakhs 53 thousands 9 hundred 74' may be better said as 'about 15 and a Writing Techniques 102 half lakhs' or 'more than 15 lakhs'. We can say that radio listeners may be engaged in other activities while listening to the radio; therefore, we should keep our words simple and friendly as in our normal conversation. Long and complicated sentences need to be avoided. Short sentences and simple words are essential requirement

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### Principles of writing for radio script

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Script is the backbone of production. So writing is an essential part of it.

**Identifying the Listeners** - After learning about the broad categories of programs radio writers should also know about the programs for special audiences. Whenever we plan a program and write a script for it, we have to keep that program listeners in mind. Certain programs are for all the listeners, but many are targeted at special groups of audiences.

When writing for a particular audience group, we also need to identify various sub-groups and their particular requirements. For example, radio stations have programs for women, but all women may not have identical interests. A homemaker may have some requirements, but a working woman may have different requirements. Similarly, the needs of unemployed youth would be different from those of a young person holding a good job.

### Key Factors in Identifying Listeners

1. **Demographics** – Age, gender, education level, income, occupation, and location.
2. **Psychographics** – Attitudes, beliefs, values, interests, and lifestyles.
3. **Listening habits** – When, how, and why they listen (morning, while traveling, at work, etc.).
4. **Cultural background** – Traditions, language preferences, and regional influences.
5. **Media behaviour** – Whether they prefer news, music, talk shows, or entertainment programs.

### Methods to Identify Listeners



- **Surveys and questionnaires**
- **Audience feedback** (letters, phone-ins, emails, social media comments)
- **Ratings and research reports** from audience measurement agencies

For example ; A community radio station in a rural area might identify its listeners as:

- Age group: 25–55 years
- Occupation: Farmers and local traders
- Language: Local dialect
- Interest: Agricultural news, local weather, folk music, and government schemes

**Research for a script** Any radio script can be effective based on its content, which depends on the research about the subject. Let us take an example. Suppose a talk on the historic Red Fort in Delhi mentions that the road opposite Red Fort going to Chandni Chowk used to be a ‘Canal’ during the Mughal period. In that case, it will certainly attract the attention of the listener. Listeners may like this information, which might be unknown to them that the road that is now brimming with heavy traffic is where people used to enjoy boating in the moonlight.

To find out unknown, rare facts on a given subject, we should consult books on the subject, go through magazines for relevant articles, consult subject matter specialists, visit a particular place or tourist spot or historical building concerning the subject and so on. Formats like documentaries require deep and detailed research. But, even for writing a radio talk of 5 minutes, the importance of research can’t be ignored. If we write for radio without proper knowledge of facts, it will only be a ‘play of words’, which would be unethical and almost mean cheating the listeners.

**Maintaining the Flow of Script** An attractive beginning catches the audience's attention and makes them listen to our programme, but that is not all. We have to ensure that our listener continues to listen to the whole programme with maximum possible attention. If, after a good beginning, the writer cannot maintain the flow and the progression of the script does not arouse any curiosity, then the programme will not achieve its objective.

Hence, a radio writer must ensure that along with informal and friendly language, relevant



and interesting facts on the subject continue to be presented attractively so that the listener remains engrossed in the broadcast. The talker may be a very renowned and knowledgeable person. Still, while broadcasting, he/she should use interactive phrases such as ‘let us see why it happens’ and ‘you must be wondering why it is so just to establish a friendly rapport with the listener and make them a partner in discussing the subject.

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**Basic rules of a Radio script:**

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- A) **Use simple words:** Easier, simple and common words should be used. We need to remember how we talk, not how we write. Radio is a medium whose least common denominator audience are the laymen; using simple words is important. A list of a few radio appropriate words in English is provided below.
- b) **Use short sentences:** Sentences should avoid conjunctions as much as possible. The sentences should ideally be of a length appropriate for talking. Remember, unlike print, we cannot go back to the sentence and re-hear it.
- c) **One idea per sentence:** One sentence should carry one idea. Never clutter one sentence with too many ideas.
- d) **Use present tense:** This is especially relevant for news bulletins, particularly the headlines. For conveying the immediacy and to drive home the urgency of news, the use of present tense is a cardinal rule. For example: • The Monsoon Session has commenced (commences) • We have responsibility for quality..... (are responsible) • The Prime Minister has inaugurated the project (inaugurates)
- f) **Use active voice:** Scripts should be written in active voice, for example: - • A new governor was appointed by the President (President appointed) • Ten shops were destroyed by a fire ... (A fire destroyed) • A meeting will be held by the teachers.... (Teachers will hold a)
- g) **Avoid stock phrases, superfluous words and clichés.** Below is a tentative list of each word that we tend to use every day while writing in English (which is not exhaustive): Stock Phrases: —Lead from the front— Where else? —Follow in x’s foot steps— just follow





—Ground rules— just rules Superfluous words: Set a new record Died in a fatal accident Holiday period Future plans It is a true fact in a week priority history

h) **Tips for writing final draft**

- The script should be typed or written only on one side of a sheet so that no noise is recorded while turning the pages. It is better to finish a paragraph on the same page. If that is not possible, at least the sentence should be completed. Carrying an incomplete sentence onto the next page should be avoided because it will create a break in the flow of reading at the time of recording. A new page should always begin with a new sentence.
- i) **Ethical considerations** - Nothing should be written which is against the code of conduct of the concerned broadcast organisation. The decency of language should always be maintained. Nothing should be written that can hurt any community's sentiments or ridicule any disabled person, even if it is a programme of humour or satire.
- j) **Avoid difficult words** – As people are listening while doing something else so they can not open the dictionary unlike newspaper reading.
- k) **Repeat important words** - Because radio and television listeners do not pay attention all the time, and because people often switch on their sets half-way through a bulletin, it is important that you repeat the essential features several times in the story. Of course, too much repetition can be boring, so do not overdo it. A simple tip is to cover the intro and see whether or not you can still understand the story from what is left. Try it with the example above.
- l) **Avoid Abbreviations** - Where the initials of an organization are read as a word, write them as such, for example Nato, Asean, Apec. But if they must be read individually, separate each letter with a dot, as in U.N., P.N.G. or Y.M.C.A.. Some broadcasters prefer to hyphenate the letters, to make it even clearer that they must be read out separately, for example P-N-G. The first reference must be written in full unless the initials are widely understood on their own - as are the three examples above. Do not use the abbreviations a.m. or p.m. There is always a better way which tells your listeners much more. Phrases like "this morning" or "tomorrow afternoon" mean much more to most listeners.
- m) **Radio is personal**- you're talking to one person at a time. That's why your writing has to sound



like it is —talked, not read. Lectures don't work on radio. Your script can't be just —read. It has to be performed. Radio writing has to be tight and clear, and above all, interesting. Over-the-air radio has been called the theater of the mind, because good writers can conjure up images for listeners. But most radio news is heavily formatted into tiny story slots, so you need to be as clear, descriptive, and direct.

- n) You must be descriptive. Obviously, the visuals aren't there, so you have to add words that speak of sights, sounds, aromas, and whatever else contributes to setting the scene. Ambient sound is often a big help to accomplishing word pictures.

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### Formatting Tips for Written Copy

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These tips are especially important if you are writing copy for others to read. These will help a script reader to read more easily, and will help listeners to hear and understand more easily.

- Double space all copy for easy reading. Also, use a large enough font for easy reading – 12-point minimum.
- Exaggerate where the paragraph begins by spacing.
- Round out all numbers. Most people can only remember one or two numbers at a time, so keep them to a minimum. Round the ones you do include in the copy. -- A \$1.47 million budget becomes —about one and a half million

### Talk up not down

Respect the intelligence of your audience members. Don't talk down to them in your copy. Give audience members the information they need and want in a clear, direct manner. You will turn them off if you talk down to them.

### Rhythmic Writing

Your writing should have a rhythm. It should have a flow. When a RJ reads it into a microphone. It should sound as if he or she is talking informally with a friend. One way to improve the flow of your copy is to vary sentence length. On average sentence should be no more than 20 words

- Use transitions to improve the flow between different aspects in a story. Look for linkages.



- Be a good ruthless editor of your own copy.
- Change what doesn't sound conversational.
- Rework sentences.
- Make some longer.
- Make some shorter .
- Never be satisfied.
- Writing is a dynamic process.
- Rarely Is your first attempt your best attempt.
- Be your own worst critic.
- Rewrite and rewrite until you get it right.
- As you write , you should constantly ask yourself. —How does this sound?||
- Of course , after you finish a sentence, you should read it aloud to be sure it sounds conversational.

### Write concisely

- Time is precious in radio writing You don't have much of it in which you tell your story and quite often you don't much time to write your story. So be concise in your writing. Trim the fat of needless words. Get to the point, tell why its important and move on.

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### 10.4 Summary

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**Writing for Radio** is the art of creating content specifically designed for audio broadcast, keeping in mind that listeners rely solely on sound to receive information. Unlike print or visual media, radio scripts must be **clear, concise, and engaging**, using short sentences, simple words, and a conversational tone. Understanding the **target audience** is crucial to ensure the content is relevant and relatable. A good radio script combines factual information with storytelling, vivid imagery, and well-placed pauses, music, or sound effects to maintain listener interest. Writers must also consider **timing, pacing, and program format**, whether it's news, interviews, talk shows, or educational programs. Ethical



communication, accuracy, and cultural sensitivity are essential, as is the ability to adapt scripts based on audience feedback. Ultimately, effective radio writing creates a strong connection with listeners, making the broadcast memorable, informative, and engaging.

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### 10.5 Keywords

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- Engagement
- Storytelling
- Sound effects
- Pacing
- Ethical communication
- Program format
- Concise language

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### 10.6 Check Your Progress

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1. What is the most important feature of writing for radio?
  - a) Long and detailed sentences
  - b) Clear and concise language
  - c) Complex vocabulary
  - d) Visual imagery
2. Which of the following is unique to radio compared to print media?
  - a) Use of headings and subheadings
  - b) Reliance solely on audio
  - c) Detailed written analysis
  - d) Graphs and charts
3. Why is knowing the target audience important in radio scriptwriting?



- a) To choose the font style
- b) To tailor content, tone, and language to listener preferences
- c) To make the script longer
- d) To avoid writing altogether

**4.** Which technique helps create vivid mental imagery in radio scripts?

- a) Using long paragraphs
- b) Descriptive language and sound effects
- c) Using technical jargon
- d) Writing in passive voice

**5.** Which of the following is a key ethical responsibility in writing for radio?

- a) Using as many words as possible
- b) Ensuring accuracy and cultural sensitivity
- c) Avoiding listener engagement
- d) Ignoring facts to make the story interesting

**6.** Short sentences and simple words are preferred in radio because:

- a) Listeners cannot read long texts
- b) Listeners can easily understand spoken content
- c) It makes the script appear professional
- d) It allows inclusion of more technical terms

**7.** Which element is often included in a radio script to enhance delivery?

- a) Sound effects and music cues
- b) Footnotes and references
- c) Charts and tables



d) Long descriptive paragraphs

**8.** A radio script must be adapted based on:

a) Listener feedback and engagement

b) The writer's personal preference only

c) Number of pages written

d) Visual appeal of the script

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### 10.7 Answers to check your progress

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1. b) Clear and concise language
2. b) Reliance solely on audio
3. b) To tailor content, tone, and language to listener preferences
4. b) Descriptive language and sound effects
5. b) Ensuring accuracy and cultural sensitivity
6. b) Listeners can easily understand spoken content
7. a) Sound effects and music cues
8. a) Listener feedback and engagement

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### 10.8 Self-Assessment Questions

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- Q.1 Explain why radio scriptwriting is different from writing for print or television.
- Q.2 How does knowing your target audience influence the style and content of a radio script?
- Q.3 List and explain three key features of an effective radio script.
- Q.4 Why are short sentences and simple words important in radio writing? Give examples
- Q.5 Describe how storytelling techniques can be used to engage radio listeners.

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### 10.10 References and Suggested Readings

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- Crispin, J. (2019). *Radio Production and Writing: Techniques for Effective*



*Broadcasting*. Routledge.

- Starkey, G. (2014). *Radio in Context*. Palgrave Macmillan.
- Alvarado, M., & Harrison, J. (2017). *The Radio Producer's Handbook*. Routledge.
- Keith, M. C., & Lund, J. (2013). *The Radio Station: Broadcast, Satellite, and Internet*. Focal Press.
- Wood, D. (2015). *Writing for Broadcast Journalism: Radio, Television, and Online*. Sage Publications.



SUBJECT: ELECTRONIC MEDIA (SPECIAL PAPER-1) RADIO	
COURSE CODE: MSM-523 B	AUTHOR: DR. SHIPRA DUA
LESSON NO.: 11	
Voice Modulation	

## STRUCTURE

- 11.1 Learning Objectives
- 11.2 Introduction
- 11.3 Writing for Radio
- 11.4 Summary
- 11.5 Keywords
- 11.6 Check your progress
- 11.7 Answers to Check Your Progress
- 11.8 Self-Assessment Test
- 11.9 References and Suggested Readings

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### 11. 1 Learning Objectives

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- To Use modulation techniques to make speech clearer and easier for listeners to understand.
- To avoid monotony and keep the audience attentive.
- To understand how dynamic voice delivery maintains audience interest in radio, presentations, or public speaking.





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## 11.2 Introduction

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- Voice is god gifted but it can be trained
- Nobody is a born narrator or voice artist, yes he/she may have a sweet, melodious voice by birth but still his/her voice needs to be trained enough to modulate, variate and able to perform professionally for required time.
- The voice is made up of muscles, cavities, tissues, nerves, fluids, etc., just like the rest of you.
- It can produce at least 325 different pitches.
- There are more nerves in the muscles of the larynx (Voice Box) than any other muscles in your body, with the exception of your eyes.

Just as with the rest of your body, some people naturally have more vocal strength, while others need to pump up theirs just to keep up with their daily vocal requirements.

- In addition, you use three quarters of your body when you speak a word, and even a sprain can affect the sound of your voice.
- So it's not surprising that your voice can be adversely affected by excitement and stress.
- Voice modulation is the first requirement of being a professional voice artiste. Anyway, let's begin with the training.
- Like what a singer does every morning called "Riyaaz" you should also do the same every morning. You can take "Sa" only of Sa Re Ga Ma and then take a deep breath from mouth, not nose, and start reciting "Sa" with your full base voice till your quality breath comes to a decline level. Stop deliberately.



- There is no use of unnecessary stretching of breath. Keep in mind you have to inhale from mouth, fully and should go on saying "Sa" till the end of your breath in a continuous pitch without any breaks, variation or modulation of your voice
- This will not only help you in having good base voice but also increase your voicing stamina. Similarly same thing can be done chanting OM, 50% "O" and 50% "MM". When you do "MM" your resonance quality improves, your vocal chords work in tandem, you tend to develop smoothness and uniformity in your vocal texture.



**Stretch your tongue out of your mouth as far as you can in all directions**





**Yawn a few times to open up the back of the throat.**





**Moderate your pace.** This one is also closely related to breath. If you speak too quickly, people can't keep up. If you speak too slowly, people will lose interest. Record your speech to determine if you need to change your pace. Get feedback from others.



**Articulate.** Try exaggerating your lip movement to reduce mumbling. Practice articulating tongue twisters and extending and exaggerating vowel sounds. Become an expert at articulating tongue twisters as quickly and crisply as possible. Focus on the ones you find difficult.



**Practice your speech in advance and determine where you want to pause for a breath.**

For more emphasis, pause for more than one breath. Mark your breathing points in your notes.



Record your voice repeatedly using different ways of speaking.



Determine which one is most pleasing



**Practice breath control.** Take a deep breath, and while you exhale, count to 10 (or recite the months or days of the week). Try gradually increasing your volume as you count, using your abdominal muscles—not your throat—for volume. Don't let your larynx tense up.



Do vowels. Ay, ee, I, oh, uu, ahh.

- Do vowels. Ay, ee, I, oh, uu, ahh. use the robot blank face isolation style. Try to move only your lower jaw and lips, if anything needs to move to shape the sound.
- Feel your internal muscles making the sounds. start with a moderate volume. Run all the vowels together like a chant and after a few times, raise the pitch. You want to stay on the same pitch and stay on the same volume.
- When starting at higher pitches, you still want to be relaxed and have the same feeling when you make the vowels.
- For isolation of muscles for articulation, try some tongue twisters like those below. To get the full workout, say them each several times but only as fast as you can go and keep them clear. You can increase your speed over time:
- The blue bluebird blinks.



- Three free throws.
- What time does the wristwatch strap shop shut?
- Strange strategic statistics.

Freshly fried flying fish, freshly fried flesh

- If Main/Lead Voice Over is your target, you should everyday practice atleast two scripts with proper pronunciation, modulation. If you do not have the stamina you may lose your voice in a lengthy script, that is your voice may be bold, enthusiastic, fresh in the first quarter of the script and may get tired or becomes low in the end.
- This is called the stamina of Voice, to remain one till the end especially in the case of background lead voice overs or narrators for documentaries or audio visuals. Similarly for other voicing fields, mimicry, stand up comedy, cartoon dubbings, simple dubbings etc. Record your voice everyday and listen. Everyday you will notice some improvement.
- Stress on the right words - important ones / new information while reading. Practice by designing your own sentences and change the stress on the words: **I** know the answer.

**I** know the answer. I know the **answer**.

**In the above 3 sentences the meaning changes with word stress.**

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#### 11.4 Summary

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**Voice Modulation** is the art of controlling and varying the voice while speaking to make communication more effective, engaging, and expressive. It involves adjusting pitch, tone, pace, volume, and clarity to convey the intended message clearly and maintain listener interest. In radio, broadcasting, and public speaking, voice modulation is crucial because it compensates for the absence of visual cues, helping listeners understand emotions, emphasis, and meaning. A well-modulated voice prevents monotony, enhances comprehension, and ensures that key points are highlighted effectively. It allows speakers to connect with diverse audiences, adapt their delivery to different contexts, and maintain attention throughout the program. Techniques of voice modulation include proper breathing, articulation, pronunciation, pacing, and intentional variations in pitch and tone to express emotions or



stress important information. Practicing these techniques improves professional communication skills and builds confidence in presenting, narrating, or conducting interviews. Additionally, recording and reviewing one's own voice helps in self-evaluation and continuous improvement. Overall, voice modulation is a vital skill for anyone involved in radio, media, teaching, or public speaking, as it makes speech more dynamic, persuasive, and impactful. Mastery of voice modulation ensures that the message is not only heard but also felt and remembered by the audience.

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### 11.5 Keywords

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- pitch
- tone
- pace
- volume
- clarity
- articulation
- pronunciation
- emphasis
  - expression
  - listener engagement
  - breathing techniques

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### 11.6 Check your Progress

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1. What is the main purpose of voice modulation?
  - a) To make the voice louder
  - b) To vary pitch, tone, and pace for effective communication
  - c) To speak as fast as possible
  - d) To memorize scripts



2. Which element is NOT directly related to voice modulation?
  - a) Pitch
  - b) Tone
  - c) Volume
  - d) Font style
3. Why is voice modulation important in radio and broadcasting?
  - a) Because listeners rely on audio only
  - b) Because visuals distract the audience
  - c) To reduce script length
  - d) To add background music
4. What effect does a monotone voice have on listeners?
  - a) Keeps them highly engaged
  - b) Reduces attention and interest
  - c) Improves clarity
  - d) Highlights key points
5. Which technique helps improve voice modulation?
  - a) Proper breathing and articulation
  - b) Reading silently
  - c) Using long and complex sentences
  - d) Ignoring pronunciation
6. How does changing pitch and tone help in communication?
  - a) Makes speech sound robotic
  - b) Conveys emotions and emphasizes key points





- c) Slows down speech unnecessarily
  - d) Confuses the listener
7. Self-evaluation in voice modulation involves:
- a) Ignoring audience feedback
  - b) Recording and listening to one's own voice
  - c) Reading scripts silently
  - d) Speaking without practice

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### 11.7 Answers to check your Progress

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1. b) To vary pitch, tone, and pace for effective communication
2. d) Font style
3. a) Because listeners rely on audio only
- 4.a) Reduces attention and interest
5. a) Proper breathing and articulation
6. a) Conveys emotions and emphasizes key points
7. b) Recording and listening to one's own voice

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### 11.8 Self-Assessment Questions

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- Q.1 Define voice modulation and explain its importance in effective communication.
- Q.2 List the key elements of voice modulation and describe their roles in engaging listeners.
- Q.3 How does voice modulation enhance clarity and prevent monotony in radio or public speaking?
- Q.4 Explain how pitch, tone, pace, and volume can be varied to convey emotions.
- Q.5 Describe at least three techniques to improve voice modulation for professional communication.

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### 11.9 References and Suggested Readings

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- Starkey, G. (2014). *Radio in Context*. Palgrave Macmillan.
- Crispin, J. (2019). *Radio Production and Writing: Techniques for Effective Broadcasting*. Routledge.
- Alvarado, M., & Harrison, J. (2017). *The Radio Producer's Handbook*. Routledge.
- Keith, M. C., & Lund, J. (2013). *The Radio Station: Broadcast, Satellite, and Internet*. Focal Press.
- Wood, D. (2015). *Writing for Broadcast Journalism: Radio, Television, and Online*. Sage Publications.

### **Weblinks**

- BBC College of Journalism. *Voice Techniques and Modulation Guide*. [Online Resource] – <https://www.bbc.co.uk/academy/en>
- Articles on Voice Modulation and Broadcasting Skills – Available via JSTOR, Research Gate, or Google Scholar.



SUBJECT: ELECTRONIC MEDIA (SPECIAL PAPER-1) RADIO	
COURSE CODE: MSM-523 B	AUTHOR: DR. SHIPRA DUA
LESSON NO.: 12	
Writing for Radio News Bulletin	

## STRUCTURE

- 12.1 Learning Objectives
- 12.2 Introduction
- 12.3 Writing for Radio News Bulletin
  - 12.3.1 Introduction /Lead
  - 12.3.2 Body of the bulletin
  - 12.3.3 Conclusion
- 12.4 Summary
- 12.5 Keywords
- 12.6 Check your progress
- 12.7 Answers to Check Your Progress
- 12.8 Self-Assessment Test
- 12.9 References and Suggested Readings

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### 12.1 Learning Objectives

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- To understand the **concept and purpose** of a radio news bulletin as an essential component of broadcast journalism.
- To learn the **structure and format** of a radio news bulletin, including headlines, news stories, and sign-offs.



- To develop the ability to **identify and select newsworthy items** suitable for radio presentation.
- To acquire skills in **writing concise, clear, and engaging news scripts** that suit the audio medium.

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## 12.2 Introduction

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A Number of news items put together makes a news bulletin. But a bulletin is not just a string of individual news items broadcast as the scheduled time. The bulletin is more than a sum total of no of stories. The bulletin is collective form in which the separate news items are brought into a coherent order and some linkage.

Every news broadcast is part of the day's broadcasting schedule and there are usually several bulletins in a days broadcasting output of All India Radio.

Radio News Bulletin is the integral part of All India Radio programming. News bulletins can be of general or special interest. Radio news bulletin never goes off air except the emergency situation. Even then some kind of music or other programs would still be broadcast along with the news. A two minute or five minute bulletin will not have headlines because these bulletins are already brief. These will present the news crisply in the order of priority.

A ten minute bulletin will, however, start with about 4-5 headlines followed by detailed news and end also with a repetition of the headlines. It may have one break in the middle of the bulletin restating the identity of the originating organization. This will help those who may join later to identify the station/ organization broadcasting the news. It can include sound bites or voice dispatches of correspondents. A 15 minute bulletin can however carry several sound bites, voice dispatches and even short news capsules made using both sound bites and dispatches or vox pops. Live dispatches by correspondents from news location also find a place in such bulletins. These can have two breaks after every five minutes with a crisp short sentence announcing what more is to come in the bulletin. AIR has hourly bulletins round the clock .

There are two types of All India Radio bulletins

1. Major Bulletin



## 2. Minor Bulletin

Each bulletin has its target audience . The editor has to bear in mind the requirements, interests and preferences of the various regions and audience while preparing the bulletin.

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### 12.3 Writing for Radio News Bulletin

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A Radio Bulletin is generally divided into four parts

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#### 12.3.1 Introduction /Lead

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The lead for a radio news story is like the headline for a newspaper story. It should grab interest. It should give audience members an idea of what the story is going to be about . It should set the tone for the story. It should be written in a clear, concise and conversational manner.

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#### 12.3.2 Body of the bulletin

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Once you have written the lead, the rest of the story usually flows in a natural and logical manner. Body of the bulletin should tell the 5 ws and 1 H in the story.

One way to organize a story is to think of its series of main points and supporting evidence. You identify the main points of each story , prioritize them from most important to least important and then list the supporting evidence for each of the points. Supporting evidence would include such things as quotes, comparisons and statistics.

**The Break** which occurs midway ,roughly after the first half or bunch of the bulletin. This enable the newspaper to identify the broadcasting station which is a requirement since several stations are on the air on frequencies close to one another . —This is All India Radio and you are listening News.¶

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#### 12.3.3 Ending of the Story

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The Headlines being repeated at the end of the bulletin after which comes the closing announcement. The announcer of the station then tells you. —You have been listening to a bulletin relayed from Delhi.¶ Ending a story can be almost as difficult as starting one. Most of the time, you simply finish with the last bit of supporting evidence for your final main point.

A great many stories can be concluded by providing a piece of —background¶ information about



someone or something in the story. You can end your story with information about what is going to happen or what is likely to happen in the future.

This arrangement of news is called for when there is a major story to be handled. Even Otherwise ,related items should be brought into some in kind of linkage. However while integrating stories care should be taken not to play up stories which may have some loose connection with the major item but by themselves they may not be significant.

Sports items which must form an important part of your bulletin, any bulletin for that matter ,should be demarcated from the other stories with word like Now Sport or Cricket or Hockey. As the case may be. Sports , like weather ,is taken at the end of the bulletin but care must be taken not to crowd out the sports stories , that is end the bulletin without broadcasting the stories. In the technical language of broadcasting stories which you have included in your bulletin with the intention of broadcasting them but which you had to leave out for want of time are called crowded out items.

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## Writing for News Bulletin

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### Re writing the news story

All news stories should be rewritten from source copy . They should not be simply retyped or rearranged versions of the source copy. With careful rewriting, Try to make your copy more conversational, clearer and understandable. Rewriting allows you to give a new or different angle from what is mentioned in the source copy. You might be able to concentrate on something buried in the story. You might be able to come up with a local angle for a state, national or international story.

- It is good to make notes from the source copy to rewrite the story Make the notes and put the source copy aside. Use your notes, Not the source copy, as the basis for your story. Rewriting allows you to update and freshen source copy. Be a proactive news writer. Do some news gathering , make some phone calls. Ask around the newsroom. Check files and computer databases. Try to find out if situations have changed or if new information has discovered.
- Journalism is supposed to be a never ending search for truthful information. News writer should contribute to such efforts.

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### Elements of News

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- Your writing should help make important stories interesting and interesting stories important. As you look at the source copy, think about what audience members need to know and what they will find interesting and important. Emphasize the five w's and one H in the story.
- Significance –The importance of news and how many people are affected
- Prominence- Who's involved and what expertise do they have and /or what positions do they hold in the society.
- Proximity- How close to home did the events occur and/ or were any local people or issues involved.
- Timeliness- How recently did the events occur
- Human Interest- conflict, emotional appeals, heroism, achievement, animals, humor and so on

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### Principles of News writing

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- A string of numbers should be written in words in a news script.
- Example (Poor) 1,793
- Example (Better) One Thousand seven hundred ninety three

### Keep It Simple

- Research has shown that audience members rarely give their undivided attention to radio newscasts. Most of the time, people are eating, driving, or talking while newscasts are on. It is important to use simple, easy to understand words and sentence constructions. Don't confuse the audience because they often become angry audience. And angry audience usually don't remain loyal listeners.
- Don't try to impress audience with extensive vocabulary. Your goal is to communicate important information to as many people as you can. Use easy words and accurate information.

#### ❖ News bulletin script sample

**Duration:** 5 minutes **Format:** Radio

**Time :** 5 pm



News Reader/Announcer

Good evening Listeners, this is XYZ, bringing you the 6 PM news. Let's take a look at Headlines.

### HEADLINES

1. Prime Minister addresses the Global Climate Summit — India commits to cutting carbon emissions by 45% by 2030.
2. Heavy rains lash Mumbai — several areas waterlogged; trains running late.
3. The Reserve Bank keeps repo rate unchanged — focus on controlling inflation.
4. NASA announces discovery of water traces on Mars' surface.

Now News in details

1. Prime Minister Narendra Modi today addressed the Global Climate Summit virtually, pledging India's commitment to sustainable energy. The Prime Minister highlighted India's progress in renewable power generation and called for international cooperation in tackling global warming.

Signature Tune

2. In Mumbai, continuous rainfall since last night has caused waterlogging in several parts of the city. The Municipal Corporation has deployed additional teams to clear drains, and citizens are advised to avoid non-essential travel.

In Mumbai, continuous heavy rains since last night have brought the city to a standstill. Several low-lying areas including Dadar, Kurla, and Sion remain waterlogged, disrupting local train and road transport. The Brihanmumbai Municipal Corporation (BMC) has activated its emergency control rooms and deployed additional staff to clear clogged drains. Railway officials report that suburban train services are delayed by 20 to 30 minutes on the Western and Central lines. The India Meteorological Department has issued a **yellow alert**, predicting more rain over the next 48 hours. Citizens have been advised to avoid unnecessary travel and stay indoors during high-tide hours.

Signature Tune

3. In business news, the Reserve Bank of India (RBI) today decided to keep the repo rate unchanged at 6.5 percent during its monetary policy meeting. RBI Governor Shaktikanta Das





said the decision was made to maintain financial stability and balance economic growth while keeping inflation under control.

The Governor added that although retail inflation has eased slightly, food prices remain a concern.

The RBI has projected GDP growth for the current fiscal year at 7 percent.

The central bank's policy stance remains focused on —withdrawal of accommodation,|| signaling a cautious approach toward further rate cuts.

4. Meanwhile, **NASA** has announced a groundbreaking discovery — traces of frozen water beneath the surface of Mars. Using the Mars Reconnaissance Orbiter, scientists detected layers of subsurface ice near the planet's equatorial region. This finding significantly increases the possibility of future human missions to Mars and the potential for sustaining life there.

Good evening ! keep Listening All India Radio

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## 12.4 Summary

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Radio news bulletin writing involves preparing concise, clear, and engaging news scripts designed for listening rather than reading. It focuses on delivering accurate and timely information in a limited duration while maintaining audience interest. A good radio bulletin follows a structured format, beginning with headlines, followed by major news stories arranged in order of importance. The language used is simple, conversational, and suitable for the ear, avoiding complex sentences or jargon. Writers must ensure objectivity, balance, and credibility while adapting news from various sources. Proper sequencing, time management, and smooth transitions between stories are essential to maintain flow. Voice clarity, tone, and pronunciation also play a vital role in effective presentation. Overall, radio news bulletin writing combines journalistic accuracy with creative audio presentation to inform and engage listeners efficiently.

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## 12.5 Keywords

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- Radio journalism
- News bulletin
- Headlines



- Script writing
- Objectivity
- Accuracy
- Clarity
- Conciseness

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## 12.6 Check your progress

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1. The main purpose of a radio news bulletin is to:
  - a) Entertain listeners
  - b) Provide timely and accurate news information
  - c) Promote radio advertisements
  - d) Play background music
2. Which of the following should a radio news writer avoid?
  - a) Short sentences
  - b) Jargon and complex words
  - c) Conversational tone
  - d) Clear pronunciation
3. The first part of a radio news bulletin usually contains:
  - a) Sports news
  - b) Advertisements
  - c) Headlines
  - d) Weather report
4. The most important quality of a radio news script is:
  - a) Lengthy explanations



b) Visual description

c) Clarity and conciseness

d) Technical details

5. In a radio bulletin, sequencing of news items is based on:

a) Random order

b) Time of day

c) Importance and relevance

d) Popularity of reporter

6. Which element is crucial for maintaining credibility in radio news?

a) Humor

b) Accuracy and objectivity

c) Personal opinion

d) Dramatic narration

7. The language of radio news should be:

a) Complex and formal

b) Poetic and emotional

c) Simple and conversational

d) Technical and detailed

8. Who is primarily responsible for reading the radio news on air?

a) Producer

b) Scriptwriter

c) Newsreader

d) Sound engineer



9. What helps keep the listener engaged during a bulletin?

- a) Voice modulation and tone variation
- b) Reading very fast
- c) Using difficult vocabulary
- d) Long pauses between stories

10. Ethical radio news writing requires:

- a) Exaggeration for effect
- b) Respect for facts and fairness
- c) Ignoring privacy issues
- d) Promoting bias

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### 12.7 Answers to Check Your Progress

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- 1. b) Provide timely and accurate news information
- 2. b) Jargon and complex words
- 3. c) Headlines
- 4. c) Clarity and conciseness
- 5. c) Importance and relevance
- 6. b) Accuracy and objectivity
- 7. c) Simple and conversational
- 8. c) Newsreader
- 9. a) Voice modulation and tone variation
- 10. b) Respect for facts and fairness

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### 12.8 Self-Assessment Test

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Q.1 What is the main purpose of a radio news bulletin?



Q.2 Why should language in radio news be simple and conversational?

Q.3 List the main components of a radio news bulletin.

Q.4 What are the key qualities of a good radio news script?

Q.5 How does sequencing affect the effectiveness of a news bulletin?

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## 12.9 References & Suggested Readings

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- Sharma, P. (2017). *Basics of Radio Broadcasting*. Jaipur: Pointer Publishers.
- Jones, A., & Salter, L. (2016). *Broadcast News Writing: A Guide for Journalists*. London: Routledge.
- Radio and Television Training Institute. (2021). *Manual for Radio News Bulletin Writing*.
- UNESCO. (2015). *Media and Information Literacy for Radio Journalists*. Paris: UNESCO Publishing.



SUBJECT: ELECTRONIC MEDIA (SPECIAL PAPER-1) RADIO	
COURSE CODE: MSM-523 B	AUTHOR: DR. SHIPRA DUA
LESSON NO.: 13	
Radio Interview, Radio Talk, News Reel and Radio Advertisements /spot	

## STRUCTURE

### 13.1 Learning Objectives

### 13.2 Interview

#### 13.2.1 Key Features of a Radio Interview

#### 13.2.2 Types of Interview

#### 13.2.3 The Basic approach of interview

#### 13.2.4 Preparing for the Interview

#### 13.2.5 Conducting the Interviews

#### 13.2.6 Recording the Interviews & question technique

### 13.3 Talk

#### 13.3.1 History of Talk

#### 13.3.2 Dos and Don'ts of Talk

### 13.4 News Reel

### 13.5 Radio Advertisement/Spot

### 13.6 Summary

### 13.7 Keywords

### 13.8 Check your progress

### 13.9 Answers to Check Your Progress



### 13.10 Self-Assessment Test

### 13.11 References and Suggested Readings

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## 13.1 Learning Objectives

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- To understand the purpose of a radio reel as a showcase of content or talent.
- To learn how to select and organize audio clips effectively.
- To understand the structure and purpose of a radio interview.
- To develop skills in preparing questions and research on the interviewee/topic.
- To understand the role of a talk in informing, educating, or entertaining listeners.

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## 13.2 Radio Interview

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The word interview comes from the French and means, roughly, —to see one another — interviews fill a great many hours of every broadcast day. Some are brief, such as ten-second news broadcast actuality or sound bite. Others are longer and make up the substance of hour -long talk programs. Interviewing eyewitnesses at the scene of fire, an air plane crash, or similar event for a news broadcast is only one aspect of news gathering by reporters ; on the other hand,conducting interviews and discussions with guests is the chief activity of hosts of interviews .

A **radio interview** is a structured conversation broadcast over radio in which a **host or interviewer** asks questions to a **guest or interviewee** to inform, entertain, or educate the audience. It is one of the most common formats of radio content and can be live or pre-recorded.

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### 13.2.1 Key Features of a Radio Interview

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#### 1. Purpose

- To **inform** the audience about a topic, event, or issue.
- To **entertain** listeners with interesting personalities or stories.
- To **educate** the audience on social, political, or cultural matters.



- To **promote** a person, product, or event.

## 2. Participants

- **Interviewer:** The person who asks questions, guides the conversation, and keeps it engaging.
- **Interviewee/Guest:** The person who responds, shares information, insights, or experiences.

## 3. Format

- **Live Interview:** Broadcasted in real time.
- **Pre-recorded Interview:** Recorded, edited, and then aired.
- **Panel Interview:** More than one guest answering questions.
- **Phone/Remote Interview:** Guest participates via telephone or internet.

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### 13.2.2 Types of Interview

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There are several types of interview each requiring different skills

#### 1. Interview by appointment

Preferably, it is one interview. If someone has achieved some distinction in arts, literature, science or another field, he/she has been given a prestigious national or international award. Generally, they are important people and would not like to come to your studios. Therefore, you have to take an appointment. Normally it is at interviewee's place. Since you have got sometime, prepare thoroughly and research.

#### 2. On the spot Interview

There has been an accident, fire or flood or any other natural calamity. You have not been there, naturally. Reach there. Talk to the survivors sympathetically. Do not ask any embarrassing question like —how are you feeling after losing your son? Encourage them to be relaxed and ask questions. Their words can be used as 'Sound bite or actuality'. Such Interviews do give credibility to your news cast.





### 3. Doorstopper or grab interview

There are certain events where media people are not allowed. But all the same it may yield some news. The nosy newsmen wait outside, at the doorsteps for some important person to come out. The moment someone comes out the waiting journalists ask him, what is the theme of the conference, what is being discussed and who are the important people attended the conference.

This will provide enough points of news for your bulletin. This type of interview is more common in TV now a days.

### 4. News Conference

Many Journalists come to attend the press conference. The news given in such conference is common to all. A clever radio reporter reaches the place of press conference a little early. He/she contacts the person who is going to address the news conference and request him for a two minute separate interview. This gives the reporter additional advantage. The recorded voice of the newsmaker can be used as an ‘actuality’ in the news bulletin.

### 5. VOX Pop Interview

The full form of VOX pop is ‘voice of the people’. This is the interview of common man. Any matter which affects the largest number of people is subject of this interview. For example, for national budget like market, railway station, bus station etc. While approaching the persons for interview, you can tell them you are from Radio XYZ...and also the purpose of your interview.

### 6. Telephone Interview

Telephone quality is not good for bulletin use and except in emergencies, telephone recordings should not be used. However, telephone is an excellent tool of news gathering. And the next bulletin is only a few minutes away, the best thing is to contact the news maker on the phone for short interview. Frame your questions and start talking to the interviewee. If he is not audible, request him to speak a little bit louder.

This short interview will definitely serve your purpose.



## 7. Live Interview

The quality of the news bulletin is enhanced if live interviews are taken with people in the news. Such interviews do give a feeling of immediacy. At times, such interviews are very risky because you have no chance of editing it.

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### 13.2.3 The basic approach of interview

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#### Avoiding Abstraction

One of the fundamental aspects of interviewing that affects every interviewer's approach is what semanticist S.I. Hayakawa calls the abstraction ladder. This phrase refers to the fact that several terms are usually available for the same phenomenon, some precise and some general.

For example, food, fruit, and apple. An apple is specific fruit and it's also a food, so all three terms are accurate. The term food is a high level abstraction, fruit is below it on the ladder, and apple is quite specific and is, therefore, at the lowest rung on the ladder.

#### Avoiding Bias

A second basic consideration for any interviewer is bias. When interviewing a person on a controversial or extremely important subject, it's natural to accept without question comments that you agree with. As a person with many opinions of your own, you are free to agree or disagree with this statement. As a responsible interviewer, however, you have an obligation to ask further questions to bring out facts that led your guests to the conclusion reached.

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### 13.2.3 Preparing for the Interview

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**Carefully research the guest's background, accomplishments, attitudes, beliefs and positions** You will generally know from one to several days in advance who your guests will be, so you will have enough time to do some research. If your guest has written a book, and if the interview is to focus on it, you should read the book, make notes, and read some reviews.

Among the many sources of information about well-known persons and important topics are Who's Who (in politics, in education, in medicine, and so on). You can find articles by checking the literature on internet. Most radio stations, as well as public libraries, have access to computerized data banks that



provide information on nearly anyone of importance. If your guest is not a person of national prominence, then you can talk to the people. If your guest has been scheduled by a PR officer, you most likely will be provided with a Press Kit containing useful information. When time and circumstances permit, researching your guest's background is as important as all other factors combined.

### **Be sure the topic to be discussed is of interest or importance**

Although a dull guest can make even the most exciting subject boring, an interview always benefits if the topic itself is truly interesting or important. When you practice interviewing as a student, don't settle for the most readily obtainable guest. Interviews with parents, siblings, classmates, and others you know well are seldom of interest to anyone, the participants included. A special energy is generated when you interview people who are strangers to you, and an even greater intensity develops when you interview people of real accomplishment.

### **Where appropriate, limit the number of topics so that they can be discussed in depth**

Depending on the intended length of the interview, it's best to explore only as many topics as you can deal with in some depth. The least interesting interviews are those that randomly skim the surface of open topic after another.

Don't submit questions in advance, unless you'd lose an important interview by refusing to do so.

Hostile guests and some politicians may ask you to submit your questions in advance. This practice is a bad one, because spontaneity demands that guests not rehearse their answers. On the other hand, it is good practice to let an interviewee know the general areas to be covered. To help relax an inexperienced guest, you might even reveal your first question slightly in advance.

There is one exception to this rule: if you are going to ask a guest for his or her most interesting, funniest, or most unusual experience, advance notice will provide time for reflection. Most interviewees draw a blank when asked such a question abruptly, but a little advance notice may make the answer the highlight of the interview.

### **Write out, or at least make notes on, the introduction and conclusion**

Writing out or outlining the beginning and ending of an interview will free you during air time to focus



on its body. Note, however, that unless you are able to read your opening and closing in a totally conversational manner, the shift from reading to ad-lib speaking will be quite noticeable. In most instances the conclusion should include a summary of important or interesting information revealed during the interview; this cannot, of course, be written in advance, but your prepared conclusion can indicate the point at which you will ad-lib this summary.

**Plan at least a few questions to get the interview started and to fill awkward gaps.** Few sights are more painful than those of interviewers struggling to come up with question. Plan ahead, but be ready to drop planned questions if they prove unnecessary.

### **The guest**

#### **Make your guest feel at home**

Introduce your guests to studio and control room personnel when it is convenient. Show your guests the area where the interview will take place and give them an idea of what is going to happen. Such hospitality should help relax your guests and make them more cooperative.

#### **Establish the guest's credentials at the start of the interview**

Station personnel usually select guests they believe are knowledgeable and responsible. The audience, too, should know how and why they are qualified to speak on a particular subject.

#### **Occasionally and indirectly reestablish the guest's name and credentials**

On radio, of course reminders must be done orally, and, because listeners can't see the guest, frequent re-introductions are essential.

#### **Remember that the guest is the star**

Rarely is the interviewer of more interest to the audience than the guest. Oscar Levant, a famous pianist, consistently upstaged his guests, and the audience loved it. In general, however, dominating an interview is not only contrary to its purpose of drawing the guest out but also simply rude.

#### **Remember that the guest is the expert**

At times, of course, you will be an authority on the subject under discussion and will be able to debate it with your guest. In most cases, though, your guest will be the expert.

**Don't pre-interview your guest**

Your conversation will lose spontaneity if you and your guest discuss the upcoming interview in detail before going on the air. Confine your contact with your guest to a general ice breaking conversation unless your judgment tells you must mention one or another critical or sensitive topic you wish to include.

**Avoid entrapment**

Some trash radio interviewers mislead guests by hiding from the sensitive or sensational item that the guest would prefer to leave un discussed , then springing the question during the on air interview.

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**13.1.5 Conducting the Interviews**

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- **Discuss the subject with the guests**

On typical talks, hosts aim for conversation with their guests . They seek to avoid yes or no answers session (Q&A). Successful talk show hosts participate in the discussion , adding information, anecdotes, and insightful comments. Unlike reporters , they do not rapidly fire questions hoping to obtain sound bites from news makers.

- **Try to establish a comfortable atmosphere**

Don't cross examine or otherwise or otherwise bully guests. Because they may be nervous, its your responsibility to put them at ease, no matter how much you may like or disagree with them. If you show hospitality, both your guests and your audience will resend it.

- **Seek out guests deep convictions**

Don't settle for mentally rehearsed platitudes and clichés. Probing usually means that you must reveal something about yourself.

- **Establish the importance of the topic**

Topics that are obviously noteworthy need no special build up , but others may require brief explanation. People are interested in almost anything that directly affects them , so your interview will increase in significance if you can establish its relevance to your listeners.



- **In general base questions on the guests previous statements**

Do not hesitate to dispense with pre-planned questions if more interesting ones arise naturally from the discussion.

- **Be tenacious**

Don't be put off by evasive answers. Keep probing until you see that you can't get any further. Then drop the line of questioning and turn to something else.

- **Don't interrupt with meaningless comments**

—I see! —Uh huh! —Oh yes! and — that's very interesting! add nothing to an interview and actually detract from what your guest is saying. All announcers should cure themselves of the habit of using such vocal reinforcement when they interview.

- **Keep control of the interview**

Experienced guests, particularly politicians, can take over and use an interview for their own purpose. Keep the questions coming so that guests don't have time to digress from the subject or the opportunity to indulge in speech making.

- **Keep cool**

Interviewing is your specialization, and you should feel at ease. Your guest may be a stranger to the interviewing situation and may be awed by the equipment.

- **Always be ready with your next question, but don't allow it to distract you from the comments your guest is making**

Be prepared to alter your plan on the basis of an unexpected answer but don't be caught with no question at all in mind. The problem of thinking ahead to the next question without tuning out the present is solved only with practice and experience.

- **Make questions brief to the point, but don't be rude**

Don't be afraid to ask more detailed questions when circumstances warrant, but avoid rambling questions.



- **Don't ask questions that invite Yes or No answers**

Try instead to draw your guest into an amplified responses. The key [point here is that your interview will flow better and will flow better and will have a greater chance of eliciting interesting answers if you concentrate on asking —why? What? and —how? questions rather than

—Are you? —did you? or —can you — questions .

- **Ask questions a lay person would ask**

- **Avoid predictable questions**

Word some of your questions from a point of view that is opposite to that of your guest. Fresh and unexpected questions are necessary in two common circumstances. When the guest is someone who regularly appears on interviews and whose opinions are, therefore , widely known; and when the topic has been so thoroughly chewed over by experts and amateurs alike that the audience can anticipate the questions likely to be asked.

- **Don't answer the questions as you ask it**

For example, what could the senator say in response to the following question except —That's right?

- **Don't feel compelled to jump in with a question the second a guest stops talking**

Some interviewers believe that any dead air is unacceptable. . One popular talk show host was notorious for interrupting guests in middle of amusing anecdotes out of a fear of a moment of silence.

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### 13.2.6 Recording the Interviews & question technique

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When recording at any location that has a high level of ambient sound ( machinery, traffic, crowds) , hold your microphone close to your guests mouth . As mentioned earlier , authentic background sounds can enhance the realism of your report, but they must not be so loud as to interfere with your guests remarks. If you will later edit out your questions , you need not move the microphone back and forth between you and your guest. If, on the other hand , you are to retain even some of your questions or



comments, then you must develop skill in moving the microphone.

To avoid microphone-handling noise, wrap the cord around your wrist. Such noises are especially troublesome because they can be heard only on playback or by monitoring during the interview, a practice seldom followed by people working solo.

Before making dates for interviews, speak with the people you have tentatively selected for the program. Tell them that you want ideas and information, but don't invite them to be interviewed until you are satisfied that they are articulate, knowledgeable, and cooperative.

You may find that you must look further for your talent. Of course, you won't be able to phone homeless people to screen them or set up appointments, so there is no reason to delay taping them. Obtain their permission to tape, then roll your cassette and start asking questions.

Before each recording session, prepare a list of questions. Be as thorough as possible in your preparation; the audio quality of your program will suffer if you have to record the same person on two or more occasions or in different locations. Ambient noise and acoustics should be as consistent as possible within each program segment.

Test your equipment before beginning the interview, no matter how experienced you are. Even professionals sometimes complete interviews only to discover that their batteries were weak, the machine was not recording, the volume level was too high or too low, or the absence of a windscreen on the microphone resulted in excessive wind blast. Try to test your equipment under the exact conditions and in the precise location of the interview. At frequent points during your taping, spot check your tape to make sure that your equipment is working properly.

When you are ready to begin the interview, ask the interviewee to remain silent and then start recording. Record about thirty seconds of dead air. This precaution provides you with ambient sound for insertion at any point at which you want an undetectable pause.

All rooms other than those designed for scientific tests have ambient noise, and no two rooms are acoustically alike. You could splice in the ambient sound from another interview, or blank tape, but either of these options would be noticeable to any attentive listener. You will rarely need the ambient sound you record, but when you do you will be grateful for having developed the habit of recording it





before every interview.

It's also good practice to allow the recorder to run for a few seconds after your guest has stopped speaking. Later, when you are editing and writing your script, you may want to do fade out at the end of one or another of your guests' comments. If you have abruptly stopped the recorder immediately at the conclusion of your guests' remarks, there is no way to do fade.

During the interview, try to keep the recorder running. Don't hesitate to stop it, however, if the sessions are going badly. The reason for an interrupted take is that most people are more alert and energized when they believe that what they are saying will be heard later on the air. Constantly stopping and starting saps energy and reduces concentration.

Keep your taping sessions to a reasonable length. A ninety minute interview to be edited as part of a three-minute program segment will cost you hours of production time. Therefore, work for interviews that are long enough to supply you with the material you need but not so long as to saddle you with hours of editing.

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### 13.3 Talk

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Radio Talks are in the form of chat show. The person who is giving a talk is close and attentive to the listener. Radio talks are meant to give information. An effective radio talk should give the impression and opinion to a listener that the speaker is conversing with him alone in an informational manner.

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#### 13.3.1 History of Radio Talk ?

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In 1927 when regular broadcasting started in India, Calcutta station broadcast only 25 talks during the period August 26, (when it came on air) to December

31. Of these, 24 were in English and only one in Bengali. Bombay station which was inaugurated about five weeks earlier on July 23, broadcast 78 talks, on which only seven were in Indian languages and the rest in English. Eight years later, in the calendar year 1935, that is just before the establishment of the Delhi station, the number had risen to 392 talks from Calcutta and 181 from Bombay. Talks in AIR have been of two kinds: those that are planned in advance in the form of schedules for each quarter of the year (Jan to March, April to June and so on) and other called 'topical talks' which are arranged at every short notice, even put over on the same day as some outstanding event occurs.



The latter have naturally to be written at great speed, and also suitable speakers have to be available. It is difficult to agree with the observations made in the first official report on broadcasting published in 1940 and covering the years upto march 31, 1939 that few Indian authorities could be prevailed upon, even if available, to take the necessary trouble at short notice and that because of this , topical talks had , with rare exceptions been a notable omission from broadcasting in India. Apparently , the right people were not asked or trusted , and the censorship procedures were inhibiting. Today the position is that there are one or two topical talks heard from most of the stations each day, even though opinions might differ about their quality and popularity.

In AIR early days , the advance quarterly talks schedules of each center were discussed of great length by the heads of the stations at their meeting also held every three months. Sometimes these SDs conferences were held at the time of the opening of new stations. When the meeting were not held each quarter , as for example during second world war or later when the number of stations increased, the talks schedules were gone through with great care by controller , the deputy controller and other senior programs staff at the head quarters.

Detailed comment and suggestions regarding the subjects and the choice of speakers , where necessary, were conveyed to the stations.

At the stations too, the preparations of talks schedule used to be a major undertaking , and the program. Assistant concerned was expected to collect and shift the ideas and meet as many as knowledgeable persons outside and prospective speakers as possible.

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### 13.3.2 Dos and Don'ts of Radio Talk

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Talks are an important element in radio programming . It should be written in such a style that it holds the listeners attention.

1. Radio talk must be written in a conversational style . That means write as you speak. If it is written in different language , It will be of no interest of the listener.
2. Avoid difficult constructions , complex sentences and passive voice. Write simple , clear and to the point.
3. Try to be personal. Frequent use of ‘I’ and ‘you’ in a radio script helps in building



identification and rapport. It should be written in such a way as if you are talking to him or her informally.

4. Avoid loading the script with too much of information. Considering that the reader can neither read nor see you nor turn back to what you have already said. He will enjoy listening to you only if it is simple and easy to understand
5. Don't clutter up your talk with figures. If at all figures are necessary, they should be rounded off. Figures by themselves mean little. Comparative figures or figures which are translated into an image or more effective.
6. By repetition people understand more. So there is no harm in repeating. Ideas register better on the radio when they are conveyed in more ways than one.
7. On an average, a talker can comfortably deliver 100 to 120 words per minute. Length of your script should be adjusted accordingly.
8. Write on one side of the paper only. Do not carry over words or sentences from one page to another.
9. For perfect speech delivery, mark pauses and stresses in your script.
10. If you have read your own script, rehearse properly, speak with confidence and authority.
11. Before writing the talk, do a lot of research and collect the material from wherever possible.

### ❖ Sample of Radio Talk

#### Opening Music Fades In and Out]

##### Host:

Good morning, dear listeners! You're tuned in to *Radio Voice FM 101.2*, and I'm your host, *Ananya Sharma*. Today, we're going to talk about something that has the power to change lives — *Positive Thinking*.

In a world filled with stress, competition, and uncertainty, staying positive may seem like a challenge. But believe me, it's not impossible! Positive thinking is not about ignoring your problems; it's about facing them with confidence and calmness.

**[Pause for effect]**

Psychologists say that our thoughts shape our reality. If you think positively, your actions naturally follow. Remember, a positive mind finds opportunities in every difficulty, while a negative mind sees difficulty in every opportunity.

**[Soft background music begins]**

Think of great personalities like *Mahatma Gandhi*, *A.P.J. Abdul Kalam*, or *Nelson Mandela*. They faced immense challenges, yet stayed optimistic. Their positive approach helped them overcome obstacles and inspire millions.

So how can we cultivate positive thinking in our daily life?

Here are a few simple tips:

1. **Start your day with gratitude.** List three things you're thankful for.
2. **Avoid negative company.** Surround yourself with people who uplift you.
3. **Replace every negative thought** with a hopeful one.
4. **Take care of your body** — exercise, meditate, and eat healthy.

Remember, positivity is contagious. When you radiate good energy, it touches everyone around you.

**[Pause briefly]**

Before we wrap up, here's a small thought to take away:

"A positive attitude may not solve all your problems,  
but it will annoy enough people to make it worth the effort!"

**[Soft laughter / chuckle]**

So, stay happy, stay hopeful, and keep smiling.

This is *Ananya Sharma*, signing off from *Radio Voice FM 101.2*.

Have a bright and beautiful day ahead!

**[Closing Music Fades Out]**

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**13.3.3 News Reel**

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The idea of a news reel was originally inspired by short news films shown in cinemas before feature movies.. When adapted to radio, it became a spoken and sound-based news package. A Radio News Reel is a compiled audio bulletin or program that presents a collection of the day's major news stories, events, and reports in a concise, engaging, and fast-paced format. It functions like an audio —film reel— a sequence of short news items — designed to keep listeners informed about current affairs in a brief span of time. These are usually broadcast daily or weekly to provide updates on political, economic, social, and global events.

Radio Newsreel is a format embellished with many sound bites and actuality inserts. The linking script is kept very short. Appropriate sound inputs are interwoven into this brief script. This renders the news presentation more lively and interesting compared to simple reading of a text. Voice dispatches of correspondents are also used in Radio Newsreel. However, Radio Newsreel is always pre-recorded and edited for broadcast unlike the news bulletins, which are presented live

. Newsreel program provides an opportunity to handle the news story in detail, including voice dispatches, interviews and actual background sound. Usually, a newsreel program of ten minute duration has four to five news items, The newsreel should have a good lead and proper lead-ins and throw lines for each and every cut.

The editor writing the narration should ensure that transitions from one cut to another are smooth and repetitions are avoided as far as possible. The ten minutes program should have three or four headlines written in snappy style. Newsreel program in English is broadcast on AIR four days a week and Samachar Darshan in Hindi thrice a week.

On special occasions such as 3 December, a news reel program of extended duration is broadcast on the theme, —Year-end Review|. There are a number of ways to enliven a newsreel program by including music etc. The current affair program aim to explain to the listener in detail the intricacies of the major news developments.

Generally, journalists and subject experts deal with these subjects but sometimes, in-house correspondents and editors also write them. Besides, there are the Weekly current affair programs in English and —Charch ka Vishay hail in Hindi. Care is taken to follow the principles of news in these programs and provide fair, balanced, accurate and objective information. The Current Affair programs



can be presented on radio in many formats talks, discussions, interviews etc. In a discussion on current affairs, generally, four to five specialists participate with one of them moderating the program.

During elections, interactive programs through Phone in, Radio Bridge are also planned. The Radio Bridge is an extended form of current affair program in which experts in a number of state capitals take part in the discussion.

The moderators and experts in Delhi are connected with the studios in different state capitals through a Radio Bridge. Similarly, in Phone-in program, three to

four experts along-with the moderator sit in the studio and answer the questions posed by listeners on telephone. The Phone-in program on the occasion of Budget presentation is immensely popular with listeners from various parts of the country asking questions on the budget proposals.

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### 13.3.4 Features of a Radio News Reel

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#### 1. **Compilation of Multiple Reports**

It includes several short news items arranged in a logical order, usually starting with the most important story.

#### 2. **Use of Actuality**

Real sounds, such as interviews, speeches, environmental sounds, or crowd noise, make the presentation more authentic and lively.

#### 3. **Narration and Commentary**

A newsreader or announcer provides linking commentary to connect stories and offer brief explanations.

#### 4. **Timeliness**

Content is current and relevant, often covering events from the same day or week.

#### 5. **Balanced and Objective**

It maintains neutrality and presents verified facts without bias or opinion.

#### 6. **Short Duration**



Typically 5–10 minutes long to hold listener attention and fit within radio schedules.

### 13.3.5 Structure of a News Reel

#### 1. Opening Headlines or Theme Music

Sets the tone and immediately grabs listener attention.

Example: —This is All India Radio... presenting today's News Reel.‖

#### 2. Lead Story

The most important or breaking news item comes first.

#### 3. National News Segment

Reports on government activities, policies, or domestic events.

#### 4. International News Segment

Key global developments relevant to the national audience.

#### 5. Sports, Business, and Weather Updates

Short summaries to conclude the bulletin with variety.

#### 6. Closing Note or Signature Tune

Wraps up the reel, sometimes with the announcer's name or network tagline.

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### 13.3.6 Objectives of a Radio News Reel

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- To **inform** listeners about the latest happenings.
- To **summarize** key events in a compact and understandable format.
- To **entertain** through vivid sound effects and audio storytelling.
- To **create awareness** on political, social, and cultural issues.
- To **establish credibility** and trust in the broadcasting organization.

### 13.3.7 Production Process

1. **News Gathering** – Collecting stories from reporters, agencies, and correspondents.



2. **Script Writing** – Writing clear, concise, and conversational scripts.
3. **Recording Actualities** – Using sound clips, interviews, or ambient audio.
4. **Editing and Compilation** – Arranging news pieces logically with smooth transitions.
5. **Voice Recording** – Anchor or narrator reads the script in a clear and engaging tone.
6. **Final Mixing** – Adding background music, effects, and final polish before broadcast.

**Example- All India Radio (AIR)** broadcasts a daily —News Reel featuring political, economic, and sports news, often including short sound bites from press conferences, Parliament debates, or field correspondents.

#### ❖ Sample Script of the News Reel

#### आकाशवाणी समाचार रील (All India Radio – News Reel)

तारीख: 30 अक्टूबर 2025

समय: शाम 7 बजे

अवधि: लगभग 5 मिनट

समाचार वाचिका: शिप्रा दुबे

[ओपनिंग सिग्रेचर ट्यून – “ये आकाशवाणी है” संगीत धीरे-धीरे बजता है, फिर मंद पड़ता है]

वाचिका:

यह आकाशवाणी है। अब आप सुनिए समाचार, शिप्रा दुबे से।

**मुख्य समाचार शीर्षक:**

- प्रधानमंत्री ने नई दिल्ली में ‘राष्ट्रीय स्वच्छ ऊर्जा मिशन’ की शुरुआत की।
- भारत और जापान ने तकनीकी सहयोग को मज़बूत करने के लिए पाँच समझौते किए।
- सुप्रीम कोर्ट ने कहा—सभी सरकारी विभाग डिजिटल पारदर्शिता सुनिश्चित करें।
- छत्तीसगढ़ और ओडिशा में भारी वर्षा की चेतावनी, प्रशासन अलर्ट पर।





- क्रिकेट विश्वकप में भारत ने इंग्लैंड को सात विकेट से हराया।

### [हल्का संगीत अंतराल / छोटा ठहराव]

#### अब समाचार विस्तार से:

**प्रधानमंत्री नरेंद्र मोदी** ने आज नई दिल्ली में *राष्ट्रीय स्वच्छ ऊर्जा मिशन* की शुरुआत की। इस योजना के तहत सौर और पवन ऊर्जा परियोजनाओं को बढ़ावा दिया जाएगा। प्रधानमंत्री ने कहा कि भारत 2040 तक अपनी ऊर्जा का आधा हिस्सा *नवीकरणीय स्रोतों* से प्राप्त करने का लक्ष्य रखता है। उन्होंने कहा कि स्वच्छ ऊर्जा न केवल पर्यावरण की सुरक्षा करेगी, बल्कि युवाओं के लिए नए रोजगार के अवसर भी पैदा करेगी।

**भारत और जापान** ने आज *टोक्यो* में हुई उच्चस्तरीय बैठक के दौरान *तकनीकी सहयोग, रक्षा उत्पादन, शिक्षा और साइबर सुरक्षा* के क्षेत्र में पाँच महत्वपूर्ण समझौतों पर हस्ताक्षर किए। दोनों देशों ने *इंडो-पैसिफिक क्षेत्र* में शांति और स्थिरता बनाए रखने के लिए मिलकर काम करने का संकल्प भी दोहराया।

**सर्वोच्च न्यायालय** ने आज अपने आदेश में कहा कि सभी सरकारी विभागों को अपने कार्यों में *डिजिटल पारदर्शिता* अपनानी चाहिए। अदालत ने यह टिप्पणी ई-गवर्नेंस से जुड़े एक मामले की सुनवाई के दौरान की। न्यायालय ने कहा कि पारदर्शी व्यवस्था से भ्रष्टाचार पर नियंत्रण और जनता का भरोसा मज़बूत होगा।

**भारतीय मौसम विभाग** ने *छत्तीसगढ़, ओडिशा और झारखंड* के लिए अगले दो दिनों तक *भारी वर्षा* की चेतावनी जारी की है। बंगाल की खाड़ी में बने निम्न दबाव के कारण इन राज्यों में तेज़ हवाएँ और वर्षा होने की संभावना है। स्थानीय प्रशासन ने राहत दलों को अलर्ट पर रखा है।

**खेल समाचार में,** *क्रिकेट विश्वकप 2025* में भारत ने आज *इंग्लैंड* को सात विकेट से हराया। *कप्तान रोहित शर्मा* ने शानदार 94 रनों की नाबाद पारी खेली। भारत ने इस जीत के साथ टूर्नामेंट की अंक तालिका में शीर्ष स्थान प्राप्त कर लिया है। राष्ट्रपति और प्रधानमंत्री ने टीम को बधाई दी है।

**आर्थिक समाचार में,** *सेंसेक्स* आज 420 अंकों की बढ़त के साथ 78,600 पर बंद हुआ। *निफ्टी* में भी 135 अंकों की उछाल रही। विशेषज्ञों के अनुसार, यह बढ़त विदेशी निवेश और ऊर्जा क्षेत्र में मजबूती के कारण आई है।

### [थोड़ा ठहराव – हल्का संगीत]



### अब अंतरराष्ट्रीय समाचार –

संयुक्त राष्ट्र महासभा में आज *जलवायु परिवर्तन और वैश्विक शांति* पर चर्चा हुई। भारत के प्रतिनिधि ने कहा कि विकसित देशों को पर्यावरण संरक्षण के लिए अधिक वित्तीय सहायता प्रदान करनी चाहिए।

### [संगीत पुल / Music Bridge]

### मुख्य समाचार एक बार फिर संक्षेप में:

- प्रधानमंत्री ने 'राष्ट्रीय स्वच्छ ऊर्जा मिशन' का शुभारंभ किया।
- भारत-जापान के बीच तकनीकी सहयोग पर पाँच समझौते।
- सुप्रीम कोर्ट ने डिजिटल पारदर्शिता पर ज़ोर दिया।
- कई राज्यों में भारी वर्षा की चेतावनी।
- भारत ने इंग्लैंड को विश्वकप में हराया।

### [समापन सिग्रेचर ट्यून धीरे-धीरे बजता है]

यह थे समाचार।

अधिक ताज़ा ख़बरों के लिए हमारी अगली समाचार रील रात आठ बजे सुनिए।

नमस्कार।

### [सिग्रेचर ट्यून धीरे-धीरे समाप्त होती है]

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## 13.4 Radio Advertisements /Radio Spot

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Radio is the only audio medium. The adviser can effectively communicate to the clientele through sound. AS it is true for all advertising media, radio too has certain characteristics. The easy mobility of radio permits the consumers to listen to product advertisements.

The small Radios or transistors can be taken from place to place, the living room, kitchen and anywhere for convenient listening. In a country like India with different languages commercial radio has been effectively used by the advertisers to carry the product messages to the prospective buyers.



The main reason for the success of radio commercials in India is the high percentage of illiteracy. The cost is also cheaper comparing other media with radio having the most widespread clientele for advertising. FM Radio as a medium has become very popular.

In fact the fundamentals of copywriting are the same for all types of advertising –print. Radio and television and so on. Each medium has its own specialties . And radio is no different. Since radio is an audio medium, its audio impact has to be kept in mind while writing for advertisement.

### **Writing for the Ear**

Since the advertisements for radio are for the ear, the words have to be heard with effect.

### **Language should be clear and concise**

This universal rule of good writing applies to radio also . These advertisements have to appeal to illiterate people also. Therefore, the rule of simple language becomes all the more important.

### **Use Present Tense**

To denote immediacy, present tense must be used in the advertising copy. Clarity of language should be given top priority. If the message is not clear there is no chance of going back to the advertisement. Whereas print ads are space oriented, broadcast ads are time oriented.

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#### **13.4.1 Tools for radio advertisement.**

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**Voices:** Voice is an important tool in the hands of the copy writer for radio ads. The advertising copy should be what people say. To write conversational language is however, neither easy nor simple. The script must be suitable for the voice that is using it as well as other elements of the advertisement.

**Sound effects:** Like voices , sound effects can be very effective means of communication. Sound evokes pictures and images in the listener's heads . They can demonstrate the way a product looks or works. Sound of car engines .Crowd cheering, quiet walks in the woods, children laughing, etc can take the listeners to the scene of advertisement.

**Music :** Selecting the proper music for an advertisement's background is an important consideration for the copywriter. It can provide proper background and also add color to the advertisement. One or



two line jingles are also very popular on radio. Writing advertising copy calls for a high degree of intelligence, hard work, creativity, and competitiveness on the part of the writer. It is not a job that everyone can do, but it is one that has great rewards for those who are successful.

### ❖ Radio Advertisement Sample Script

#### RADIO ADVERTISEMENT SCRIPT

**Product:** Fresh Sip Fruit Juice

**Duration:** 35 seconds

**Language:** English

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**[SFX: Cheerful morning music – birds chirping, light background tune]**

**Narrator (female, energetic tone):**

Feeling low on energy? Start your day with a burst of freshness!

**[SFX: Sound of juice being poured – “glug glug”]**

**Male voice (happy tone):**

Mmm... that’s Fresh Sip Fruit Juice — made from 100% natural fruits, no added sugar, no preservatives!

**Female voice:**

Packed with vitamins, loaded with taste — it’s the perfect way to refresh your mornings!

**[SFX: Kids laughing and playing in the background]**

**Child voice:**

Mumma! One more glass, please!

**Narrator (female):**

Fresh Sip Fruit Juice — *Har sip mein health aur happiness!*

**[Jingle: “Fresh Sip... sip the sunshine!” □]**

**Voice-over (male, closing line):**

Available now in mango, orange, and mixed fruit flavours — grab your bottle of Fresh Sip today!



[Music fades out]

### Public Service Announcement

#### RADIO SOCIAL ADVERTISEMENT SCRIPT

**Topic:** Road Safety – “Seat Belt Saves Lives”

**Duration:** 40 seconds

**Language:** Hindi

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[SFX: Traffic sounds — vehicles, horns, light background music]

**Narrator (पुरुष आवाज़, गंभीर लेकिन दोस्ताना लहजा):**

हर दिन सैकड़ों लोग सड़कों पर अपनी जान गंवाते हैं... सिर्फ़ एक छोटी सी लापरवाही के कारण — *सीट बेल्ट न लगाने की*।

[SFX: अचानक ब्रेक की आवाज़, फिर शांति]

**महिला आवाज़ (धीरे, भावनात्मक स्वर में):**

बस एक क्लिक... और ज़िंदगी सुरक्षित।

**Narrator:**

सीट बेल्ट आपकी सुरक्षा कवच है। गाड़ी छोटी हो या बड़ी — सीट बेल्ट ज़रूर लगाएँ।

[SFX: बेल्ट की क्लिक की आवाज़]

**बाल आवाज़ (मासूमियत से):**

पापा, अब तो सीट बेल्ट लगा लो ना!

**Narrator (गर्मजोशी भरे स्वर में):**

आपकी सुरक्षा आपके हाथ में है।

*सड़क सुरक्षा – जीवन रक्षा!*



[Tagline + Music fades in softly]

□ “सुरक्षित चलो, सुरक्षित रहो – भारत सरकार का संदेश।” □

[Music fades out]

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### 13.5 Radio Jingle

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Radio jingles are those short, catchy musical interludes that tell you the name of the station, the program you're listening to, identify news networks and other on-the-air features. Radio jingles can be traced back to 1923, around the same time commercial radio began in the United States. General Mills' "Wheaties" was the world's first singing commercial. "Have You Tried Wheaties?", was first released on the Christmas Eve of 1926.

A jingle is a short song or tune used in advertising and for other commercial uses. The jingle contains one or more hooks and meaning that explicitly promote the product being advertised, usually through the use of one or more advertising slogans. Ad buyers use jingles in radio and television commercials; they can also be used in non-advertising contexts to establish or maintain a brand image. Jingles are a form of sound branding. Many jingles are also created using snippets of popular songs, in which lyrics are modified to appropriately advertise the product or service.

#### RADIO JINGLE SAMPLE SCRIPT

**Product:** “Glow Fresh Herbal Face Wash”

**Duration:** 25 seconds

**Language:** Hindi-English mix (common FM radio style)

**[SFX: Upbeat, fresh morning music – birds chirping, light guitar rhythm]**

**Female Voice (bright, happy tone):**

Subah-subah freshness ka magic chahiye?

Toh GlowFresh Face Wash try kariye!

**[Music beat picks up – soft jingle rhythm begins]**

**Singers (male + female chorus):**

□

GlowFresh, GlowFresh – feel the glow today!

Neem aur lemon se banaya – dirt ko door bhagaya!

Har wash ke saath – freshness aaye saath!

GlowFresh, GlowFresh – khil uthhe har baat!

[SFX: Splash sound + sparkle effect □]

**Voice-over (female, closing tagline):**

GlowFresh Herbal Face Wash – *Pure Skin, Happy You!*

Available now at all leading stores.

[Music fades out with final “GlowFresh... feel the glow!”]

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**13.6 Summary**

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**1. Radio Interview**

- A structured conversation between an interviewer and a guest to inform, entertain, or educate the audience.
- Can be live, recorded, or via phone/remote.
- Requires careful preparation, question planning, and timing.
- Helps connect listeners directly with experts, celebrities, or community members.

**2. Radio Reel**

- A short audio presentation showcasing a program, music, or station highlights.
- Used for promotion or auditioning purposes.
- Typically 30–60 seconds, engaging, and highlights the station’s style and content.
- Helps attract listeners and advertisers.



### 3. Radio Talk

- A monologue or discussion on a topic by a speaker or host.
- Focused on informing, educating, or opinion-sharing.
- Can be live or pre-recorded, often includes listener interaction.
- Requires clarity, simplicity, and engaging presentation.

### 4. Radio Advertisement

- A short commercial message promoting products, services, or events.
- Uses persuasive language, jingles, or sound effects to grab attention.
- Must be concise, clear, and memorable.
- Key for revenue generation for radio stations.

Overall: These formats form the backbone of radio broadcasting, ensuring a mix of information, entertainment, and commercial content that appeals to diverse audiences. Effective radio production requires planning, creativity, and technical skills to engage listeners.

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## 13.7 Keywords

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- Radio Interview
  - Interviewer
  - Guest / Interviewee
  - Live / Pre-recorded
- Question-Answer

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## 13.8 Check your progress

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1. What is the main purpose of a radio interview?
  - A) To play music for listeners
  - B) To inform, entertain, or educate the audience





- C) To advertise products only
  - D) To conduct surveys
2. A radio reel is primarily used for:
- A) Long talk shows
  - B) Promoting a program or station highlights
  - C) Live interviews
  - D) Educational lectures
3. Which of the following is a key feature of a radio talk?
- A) Silent background
  - B) Monologue or discussion on a topic
  - C) Repeated advertisements
  - D) Only music playback
4. What makes a radio advertisement effective?
- A) Long, detailed explanations
  - B) Concise, clear, and memorable content
  - C) Background silence
  - D) No sound effects or jingles
5. Which of these formats can be conducted live or pre-recorded?
- A) Interview, Talk, Reel
  - B) Advertisement only
  - C) Music only
  - D) News Headlines only

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### 13.9 Answers to check your progress

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**A1:** B) To inform, entertain, or educate the audience **A2:** B) Promoting a program or station highlights

**A3:** B) Monologue or discussion on a topic

**A4:** B) Concise, clear, and memorable content

**A5:** A) Interview, Talk, Reel

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### 13.10 Self-Assessment Questions

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Q.1 Define a radio interview and explain its main purpose.

Q.2 What is a radio reel? Mention its uses.

Q.3 Describe the key features of a radio talk.

Q.4 What elements make a radio advertisement effective?

Q.5 Differentiate between a live and a pre-recorded radio interview.

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### 13.11 References and Suggested Readings

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- Crispin, J. (2018). *Radio Journalism: Theory and Practice*. Routledge.
- Starkey, G. (2014). *Radio in Context*. Palgrave Macmillan.
- Keith, M. C. (2010). *The Radio Station: Broadcast, Satellite & Internet*. Focal Press.
- Hendy, D. (2000). *Radio in the Global Age*. Polity Press.
- Thompson, R. (2012). *Broadcast Journalism: Techniques of Radio and TV News*. Routledge.



SUBJECT: ELECTRONIC MEDIA (SPECIAL PAPER-1) RADIO	
COURSE CODE: MSM-523 B	AUTHOR: DR. SHIPRA DUA
LESSON NO.: 14	
Radio Drama , Feature and Documentary	

## STRUCTURE

- 14.1 Learning Objectives
- 14.2 Radio Drama, Feature and Documentary
- 14.3 Summary
- 14.4 Keywords
- 14.5 Check your progress
- 14.6 Answers to Check Your Progress
- 14.7 Self-Assessment Test
- 14.8 References and Suggested Readings

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### 14.1 Learning Objectives

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- To recognize the structural elements of a radio drama (script, dialogue, sound effects, narration).
- To identify components of a radio documentary (research, interviews, narration, soundscape).
- To understand the characteristics of a radio feature (storytelling, descriptive narration, and audience engagement).

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### 14.2 Radio Drama, Feature and Documentary

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#### Radio Drama

**Radio drama** (or **audio drama**, **audio play**, **radio play**.) is a dramatized, purely acoustic performance, broadcast on radio or published on audio media, With no visual component, radio drama depends on



dialogue, music and sound effects to help the listener imagine the characters and story: —It is auditory in the physical dimension but equally powerful as a visual force in the psychological dimension.

Radio drama achieved widespread popularity within a decade of its initial development in the 1920s. By the 1940s, it was a leading international popular entertainment. With the advent of television in the 1950s, however, radio drama lost some of its popularity, and in some countries has never regained large audiences.

As of 2011, radio drama has a minimal presence on terrestrial radio in the United States. Much of American radio drama is restricted to rebroadcasts or podcasts of programs from previous decades. However, other nations still have thriving traditions of radio drama. Pod casting has also offered the means of creating new radio dramas, in addition to the distribution of vintage programs.

The terms "audio drama —or "audio theatre" are sometimes used synonymously with "radio drama" with one possible distinction: audio drama or audio theatre may not necessarily be intended specifically for broadcast on radio.

The principle of developing scenes

1. Introduction.
2. Character one...goal and objective.
3. Character two...goal and objective.
4. Purpose of scene in overall plot.
5. One of the characters achieves a goal.
6. Link to the next scene by introducing or pointing to location of next scene or presence of character in next scene.

### **The Principle of Character**

7. Believable and recognizable.
8. Purpose within the plot.
9. Character has to be consistent with function.



10. Characters have to be intentional.
11. Give each character a dominant behavioral characteristic. Make the dominant characteristic purposeful. Make it extreme.
12. Your main character must be active.
13. Active character / urgent plot. The character's energy has to fight the urgency of the plot and the urgency of the plot makes the character more energetic.

### Principles of Dialogue

- a. Dialogue must be a response to a situation, plot or action.
- b. Dialogue must be a response to each character in the scene.
- c. Dialogue must be comic relief.
- d. Dialogue must connect to the next scene.
- e. Avoid reflective, passive and neutral. Go for active, and direct and emotional.
- f. Dialogue must be believable by being specific...by being specific to the character's background and emotional state.
- g. If dialogue is reacting to action or situation then it must be dramatic and poised on polarities. The goals of the characters in each scene should be different.
- h. Dialogue should be continuous. Tip...characters often take a tag by repeating the last word spoken by the first character.
- i. Dialogue must relate to function.
- j. You can mix direct with indirect between two characters because they have different goals.
- k. Humorous dialogue is not a character telling a joke but a line or lines responding to the dramatic situation.
- l. Heightened dialogue vs naturalistic dialogue. Heightened language is the language of the theater...high octane communication...poetic, philosophical...charged..the expression of the playwright...It serves not only the development of the plot and character, but it also presents the



view of the writer. Works well in radio. But there is now a tendency for more naturalism. Radio producers like to go out on location and explore realism. In these situations you must stick to natural dialogue.

### **Sound effects and music**

Sound Effects help tell the story in audio. They tell you where or when the story takes place. They tell you about the action, how events are unfolding. The Old Time Radio guys called themselves Sound Effects Artists. They would not like to be called "Foley" performers. Jack Foley is known for organizing and standardizing sound effects for films, but the name of Foley effects has blurred over into audio as well. Here you will find some websites and books that tell you more about the use of sound effects in audio theatre. There are many devices used for editing sound effects like Foley sound effect devices. Foley live sound effects and so on.

Finally record your narration. Often you will have to sit in announce booth or a small production room and do a real time recording ; alternately feeding your voice and the edited and carted actualities to a tape recorder. Its also possible to record your narration without the edited inserts and to mix the entire report later.

### **RADIO DRAMA SCRIPT – “One Small Step”**

**Theme:** Cleanliness and Civic Responsibility

**Duration:** 5–6 minutes

**Characters:**

- **Mother** – caring and wise
- **Ravi** – 14-year-old boy, curious and responsible
- **Mr. Sharma** – neighbor, a bit careless but kind-hearted
- **Narrator** – connects the story and provides the moral

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**[Opening Music – Soft, inspiring tune fades in and out]**



□ **Narrator:**

They say, “Change begins with one small step.”

Today’s radio play — “*One Small Step*” — brings you a simple story with a powerful message.

**[SFX: Morning ambience – birds chirping, sweeping sound]**

**Mother:**

Ravi, dear! Look outside — Mr. Sharma has thrown the garbage on the road again!

I’ve told him so many times that this spreads diseases.

**Ravi:**

Don’t worry, Mom. I’ll go and talk to him.

**[SFX: Door opens, footsteps]**

**Ravi:**

Good morning, Uncle Sharma! You’ve thrown garbage on the street again?

**Mr. Sharma (slightly embarrassed):**

Oh, Ravi! The garbage collector didn’t come yesterday, and I got a bit lazy.

**Ravi:**

But Uncle, if everyone thinks like that, who will keep our city clean?

Gandhiji said, “*Cleanliness is next to godliness.*”

**Mr. Sharma (smiling):**

You’re right, Ravi! I’ll pick it up right now and put it in the dustbin.

**[SFX: Picking up garbage, light broom sound]**

**Mother (cheerfully):**

See, Ravi? When children set the example, even adults listen!

**Ravi (smiling):**

Yes, Mom! If everyone takes one small step, India will shine bright and clean!

**[Background: Soft patriotic / motivational music]**



☐ **Narrator:**

Cleanliness is not just the government's job — it's *everyone's* responsibility.  
Start with your home, your street, your school. Together, we can make a difference.

☐ **(Short jingle chorus)**

☐

"Let's take a step, just you and me,  
To keep our nation clean and free!" ☐

**Narrator (closing):**

Remember — *One small step can bring a big change!*

**[Closing music fades out]**

**Radio Documentary**

A **radio documentary** is a purely acoustic performance devoted to covering a particular topic in some depth, usually with a mixture of commentary and sound. It is broadcast on radio or published on audio media, such as tape or CD. Some

radio features, especially those including specially composed music or other pieces of audio art, resemble radio drama in many ways, though non-fictional in subject matter, while others consist principally of more straightforward, journalistic-type reporting – but at much greater length than found in an ordinary news report.

**Scripting for the Radio Documentary**

Here are a few reasons to script. There must be many more.

- | To introduce and/or end an item or program
- | To link sections of a program
- | To convey information that is not available in recorded form, or which can be more logically or succinctly conveyed by a narrator
- | To give a program editorial direction so that somebody can be heard to be controlling the flow of information.





- | To introduce mood or feeling into a program, or to set a scene
- | To tell a complete story as in a feature program

It's quite possible of course to produce an entirely scripted program. But limitations of time and finance make the fully scripted feature a rare occurrence.

### **Script Writing**

It is a general axiom that the more analytical a program, the more scripting is involved. An analytical program, Insight by its nature demands the logical presentation of a variety of material, and this can only be shepherded into sequence by the controlling hand of the scriptwriter.

But in either case, scripting must be held to a minimum, within the requirements of the programme

### **Detachment versus involvement**

What is more interesting and at times more perplexing is the manner in which it is said. How detached or how involved should the writer be in his scripting?

Traditionally, the answer has been clear a neutral script on all occasions.

On the other hand, there are many other programs where we feel that a degree of involvement is no bad thing ... where a degree of skepticism perhaps, or approval, can appear in the scripting. But this can only work, I'm convinced, if you're mature, and reasonable, and have the ability to project this in writing and reading your script. Otherwise you sound opinionated. It's a matter of judgment and surety in controlling your medium that tends to come with years.

### **Tone**

While we're still on generalities of style, it follows that scripting must suit its subject. You can't write down your script in a poetic way on a perfectly straightforward topic, and similarly you don't want to ruin the feeling of a cut with insensitive scripting. A cumulative mood generally develops as recorded material comes to hand, and once you can surrender to this and at the same time control it, you're well on the way to scripting effectively.

The commonest type of scripting is simple linking narration, between cuts.

### **Planning**



Scripting is integral with planning. You can't sit down at the computer, script the opening cut, and then wonder what you're going to have in your next track. A program compiled in that way has no overall shape and no flow.

Planning is really a two phase operation:

- (a) pre -recording, and
- (b) post recording.

### **Pre-record planning**

Invariably, you go into the field with some sort of basic plan, even if it is not down on paper. It may well be modified by circumstances in fact it almost invariably will be, but you must have some reasonably clear idea of what you are about to do.

Failure to appreciate this leads to the "Magpie Method", a syndrome which is readily recognized by all newcomers to documentary work. The "Magpie Method" means the almost indiscriminate gathering of material, on the premise that if enough is obtained, somewhere in its bulk will be a program. The predicament of the newcomer is to face a pile of recorded tapes, with little idea of how to order this vast amount of material. So you must go into the field with a fairly clear idea of what you want. In the straight factual type of program this isn't hard. You must first ask the basic questions, which might run something like this:

You can see on screen

What is the present situation? How has it come about?

What will happen if it isn't remedied? What steps are being taken?

Who is taking them?

When can we see a change? What is that change likely to be?

...in short, the old "who, what, when, where" questions.

Even a simple plan like this can be fouled up by speakers saying the unexpected, or by the intrusion of complicating factors. So when the recorded material is brought back to the studio and auditioned, a second stage of planning begins.

**Post-record planning**

How you do this depends very much on personal preferences. A simple and very Workable method is something like this:

- a) Listen through to what you've recorded. Roughly cut out the pieces you plan to use and name them. You should not have hugely more sound than the length of your program
- b) Create a document (word, notepad, a notebook) and note the cuts in it.
- c) Jot down the main areas to be covered in the program. (i.e. make a paper list of what should be covered)
- d) Look through the list, and place these areas in a logical order.
- e) Go to your planning document, and select the strongest cuts in each area.

**RADIO DOCUMENTARY SCRIPT**

**Title:** *“Voices of Change: The Story of Rural Women Empowerment”*

**Duration:** 6–7 minutes

**Language:** English

**Format:** Narration + Interviews + Sound Effects

**[Opening Signature Tune – gentle folk music fades in and out]**

**□ Narrator (warm, calm tone):**

They rise before dawn, walk miles for water, work in fields, and care for their families —yet their stories often go unheard.

This is the story of India’s rural women — *the silent strength* behind our villages. Welcome to this radio documentary — *“Voices of Change: The Story of Rural Women Empowerment.”*



[SFX: Birds chirping, village morning sounds – distant chatter, hand pump water]

□ **Narrator:**

In the heart of Rajasthan, in a small village called *Devgarh*, women have found a new voice — through self-help groups.

These groups are not just about saving money; they are about *building confidence and independence*.

[SFX: Light folk music under narration]

□ **Narrator:**

Here, women like *Savitri Devi* are changing their lives one step at a time.

[Cue Interview / Female voice – natural tone]

**Savitri Devi:**

Earlier, we were afraid to speak even in our own homes. Now, through our self-help group, we make and sell handmade papads and earn together.

I feel proud that my income helps educate my children.

[SFX: Laughter and chatter of women, sound of papad rolling]

**Narrator:**

Thousands of such groups, supported by government and NGOs, are transforming rural India.

The *National Rural Livelihood Mission* reports that over *eight crore women* have joined these self-help groups across the country.

[Music transition – soft instrumental tune]

□ **Narrator:**

Empowerment is not just about earning money — it's also about education, awareness, and decision-making.

**Cue short clip – teacher voice]**

**Teacher:**

We organize evening literacy classes for women. Once they learn to read and write, their confidence grows — they can manage bank accounts, read forms, and even contest local elections!



**[SFX: Chalk on board, children reading softly]**

**□ Narrator:**

Education is the foundation of empowerment. And when one woman learns, an entire family moves forward.

**[Transition Music – hopeful tone]**

**□ Narrator:**

Rural women are also embracing technology.

With the help of smartphones and digital training programs, they are learning to market their products online.

**[Cue Interview – young woman voice]**

**Woman:**

Earlier, we sold our handmade baskets only in local markets. Now, through online platforms, people from other cities are also buying from us.

**Narrator:**

This is the new face of rural India — where tradition meets transformation.

---

**[SFX: Ambient music builds softly]**

**Narrator:**

From self-help groups to digital entrepreneurship, from literacy to leadership — India's women are scripting a new story of progress.

**(Soft chorus – women singing a folk empowerment tune)**

“We walk together, hand in hand,  
Building dreams across the land.” □

**Narrator (closing):**

They are not just homemakers; they are *nation-makers*.

Each story, each effort, each voice — adds strength to the idea of a self-reliant India.

This was “*Voices of Change*” — a radio documentary on rural women empowerment.

I’m *Ananya Sharma*, signing off.

Thank you for listening.

**Closing music fades out slowly – folk flute and tanpura blend]**

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**14.3 Summary**

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Radio drama and radio documentary are two important formats of radio broadcasting that use sound and voice to engage listeners. **Radio drama** is a scripted audio performance that tells a story through dialogue, narration, sound effects, and music, aiming to entertain, inform, or convey social messages. It relies on strong scripting, expressive voices, and creative sound design to stimulate the audience’s imagination. In contrast, a **radio documentary** focuses on factual content, presenting researched topics, events, or issues using narration, interviews, and field recordings. Its primary goal is to inform and educate the audience while providing insight into social, cultural, political, or environmental matters. Both formats highlight the unique power of radio to communicate effectively without visuals, with drama emphasizing storytelling and creativity, and documentary emphasizing authenticity and factual reporting.

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**14.4 keywords**

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- **Radio Drama**
- **Scripted Performance**
- **Dialogue**
- **Narration**
- **Sound Effects**

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**14.5 Check your progress**

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**Q.1** What is the primary purpose of a radio drama?

- A) To present factual information
- B) To entertain, inform, or convey social messages through storytelling
- C) To advertise products
- D) To broadcast live news

**Q2.** Which element is essential in a radio documentary?

- A) Scripted fictional dialogues
- B) Research, interviews, and narration
- C) Background music only
- D) Comedy sketches

**Q3.** In radio drama, what role do sound effects and background music play?

- A) They are optional and rarely used
- B) They enhance storytelling and engage listeners' imagination
- C) They replace the narrator entirely
- D) They confuse the audience

**Q4.** A radio feature is primarily characterized by:

- A) Purely fictional storytelling
- B) Descriptive narration and engaging presentation of real events
- C) Only music and jingles
- D) Silent background with text-based scripts

**Q5.** Which of the following distinguishes a radio documentary from a radio drama?

- A) Use of sound effects
- B) Focus on factual reporting and authenticity



- C) Requires voice modulation
- D) Can be entertaining

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#### 14.6 Answers to check your progress

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**A1:** B) To entertain, inform, or convey social messages through storytelling

**A2:** B) Research, interviews, and narration

**A3:** B) They enhance storytelling and engage listeners' imagination

**A4:** B) Descriptive narration and engaging presentation of real events **A5:** B) Focus on factual reporting and authenticity

---

#### 14.7 Self - Assessment Questions

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Q.1 Define radio drama and explain its main purpose.

Q.2 What are the key elements of a radio drama?

Q.3 Explain what a radio documentary is and its primary objective.

Q.4 List the essential components of a radio documentary.

Q.5 Define radio feature and describe how it differs from a documentary.

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#### 14.8 References and Suggested Readings

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1. Keith, M. C. (2010). *The Radio Station: Broadcast, Satellite & Internet*. Focal Press.
2. Hendy, D. (2000). *Radio in the Global Age*. Polity Press.
3. Thompson, R. (2012). *Broadcast Journalism: Techniques of Radio and TV News*. Routledge.





SUBJECT: ELECTRONIC MEDIA (SPECIAL PAPER-1) RADIO	
COURSE CODE: MSM-523 B	AUTHOR: DR. SHIPRA DUA
LESSON NO.: 15	
Editing	

## STRUCTURE

- 15.1 Learning Objectives
- 15.2 Audio Editing
- 15.3 Summary
- 15.4 Keywords
- 15.5 Check your progress
- 15.6 Answers to Check Your Progress
- 15.7 Self-Assessment Test
- 15.8 References and Suggested Readings

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### 15.1 Learning Objectives

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- To learn the fundamental concepts of audio editing, including waveforms, tracks, clips, and timelines.
- To understand the difference between multi track editing and waveform (single-track) editing

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### 15.2 Audio Editing

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Sound editing is a process that requires both skill and instinct. Today, most sound editing is done digitally using specialized software. It wasn't always this way. Magnetic tape and tape recorders were



first invented in the late 1940s. Using magnetic tape for recording and editing sound was the status quo until the mid 1990s when computers and digital software revolutionized the sound editing process.

The editing process was slow, tedious, and sometimes unstable. To edit sound with magnetic tape, the user had to find both points on the tape where the splice needed to occur, place the tape in an —editing block which provided a pre-cut splice area pinched at a 45 degree angle, place the tape in the block, use a razor blade to cut the tape in the 45 degree angle groove, and then physically join the magnetic tape back together with a specially designed editing tape.

And if you screwed up the splice, then you had to undo everything, use the editing tape to put the magnetic tape back the way it was, and then try again. It was tedious and sometimes frustrating work. The user had no visual of the recorded sound to refer to, either. It was all done by ear.

Now a computer user can own software which is as powerful as an older magnetic-tape based 64-track recording studio. It's an amazing amount of power and a user can acquire many software applications, may free or extremely low in cost.

Editing is both a skill and an art. Yes, there are proven methods which allow an editor to create a better product that anyone can learn but the proficient editor over time also acquires a sense for eliminating, adding or accentuating audio for projects.

Why do we edit? Mainly for aesthetics but proper editing also keeps a listener's attention. Long audio pieces - or audio that has extraneous sound in it - tends to bore listeners. Shorter audio accentuated by music, sound effects or sound punctuation keeps a listener's attention and helps you make your point.

Purpose of sound editing:

- To rearrange recorded material into a more logical sequence.
- To remove the uninteresting, repetitive or technically unacceptable.
- To reduce the running time.
- For creative effect to produce new juxtapositions of speech, music, sound and silence.

**Types of sound editing:** Mechanical/Linear Sound Editing:



Before computers came into wide use for sound editing in the 1990s, everything was done with magnetic tape. To make edits using magnetic tape, you literally had to cut the tape, remove the piece of audio that you didn't want and splice the tape back together again.

The machine of choice for mechanical audio editing was the reel-to-reel tape recorder. With this piece of equipment, you could record and playback audio from circular reels of magnetic audiotape. You also needed several pieces of specialized editing equipment: a razor blade, an editing block and editing tape.

Here's the basic cut-and-splice editing process using magnetic tape:

- ❖ Find the initial **edit point** (or **in point**), which is the starting point on the tape for the section of audio you want to remove. This is done through a process called **scrubbing**, where the sound editor slowly rocks the reels back and forth to find the precise point to make the cut.
- ❖ Using a grease pencil, make a mark on the tape directly over the tape recorder's **play head**.
- ❖ Play the tape until you reach the first sound you want to keep, called the **out point**. Also mark that edit point with a grease pencil.
- ❖ Remove the tape from the reel-to-reel and place it in an editing block. The editing block contains special grooves at 45° and 90° angles.



- ❖ Line the first edit point up with the 45° groove, cut the tape along the groove with a razor blade. Do the same with the second edit point.
- ❖ Using special editing tape, tape the two loose ends of magnetic tape back together, leaving no space in between.
- ❖ Put the tape back on the reel-to-reel and test the edit. You may need to cut more off one of the ends, or maybe you already cut too much!

When magnetic tape was invented in the late 1940s, one of its greatest advantages was that it could hold multiple audio channels without creating a lot of excess noise. This allowed for a process called overdubbing or multi-track recording.

For the first time, the sound editor could isolate and individually edit each piece of audio (dialogue, sound effects, music) and record them as their own track. That's called redubbing. Then the individual tracks could be recorded on top of each other -- overdubbed -- on a single piece of magnetic tape. The first prototypes of magnetic tape could only handle two audio tracks at a time, but later versions could hold hundreds.

### **Digital/Non- linear Sound Editing:**

Now almost all sound editors use computerized editing systems called **digital audio workstations (DAW)**. Digital audio workstations are multi-track systems that greatly simplify and enhance the sound editing process for all types of professional audio production (film audio, studio recording, DJs, et cetera).

Digital audio workstations vary greatly in size, price and complexity. The most basic systems are simply software applications that can be loaded onto a standard personal computer. More professional systems, like Digi Design's Pro Tools, require a special sound card and are typically used in conjunction with large digital mixing boards and are compatible with hundreds of effects and virtual instrument plug-ins. The advantage of all of these systems is that an editor can work with all kinds of audio files -- voices, Foley clips, analog and MIDI music -- from the same interface.



The basic sound editing process hasn't changed much in the transition from magnetic tape to hard drive. Each element of the film's audio is still edited as individual tracks (dialogue, effects, music). But with digital file formats and increased computer processing speed, the total amount of tracks is limitless. Besides multiple dialogue tracks, an editor can add dozens of background effects and layers and layers of Foley and music. Multiple tracks can be cut, copied, pasted, trimmed and faded at once. And each track comes with dozens of controls for volume, stereo panning and effects, which greatly simplifies the mixing process.

One of the big advantages of digital audio workstations is that they allow sound editors to work with graphical representations of sound. With magnetic tape, everything was done by ear. Now editors can look at the sound waves on the screen. They can see extraneous background noise and remove it with a click of the mouse. Some DAWs can automatically clean up audio, removing clicks, hisses and low-level background noise that would have ruined a take in the old days.

With graphical interfaces, sound effects designers can study the waveform of a sound and easily bend and distort it to create something completely new.

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### Process of Audio Editing

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The basic purpose of editing is to put an audio program together with clarity, continuity and impact, and in an interesting manner. To achieve this end, the following suggestions may be useful:

- o Preview your prerecorded audio materials carefully and patiently once, twice and even more if



you have time.

- o Make a proper log sheet and note down all important points and precise details that come to your mind.
- o Take some time to ponder over recorded materials and re-clarify your ideas about the overall shape of the program - its central theme, its objectives, style, music, pace, its organization, its beginning and end etc.
- o Take a decision about what is important and relevant to the purpose of your program and what is not.
- o Discard all such portion, however beautiful, as does not contribute to the theme of your program. Select only most effective and good quality sequences for your final version.
- o Look for any missing gaps and re-record some more essential material, if it can fill the gaps and can add to the quality and purpose of your program
- o Now, have a clear idea about the final shape or overall story of your program and develop the final edit-script. That is: the precise order and continuity of audio bits, of sound and music, use of transitions, that can achieve a smooth flow and desired effect.
- o You are now ready to edit actually. Estimate how much time you need for editing. Try to finish it in one go. While editing, stick to your final editing-script as far as possible.

Avoid abrupt cuts,

These are only some guidelines to enable you to follow a smooth procedure.

In fact, there are many more things that you will learn when you get an opportunity to edit an audio program either independently or with the help of a professional audio editor.

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### Stages of Editing

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The editing process takes place in several steps or phases for radio. These are:

- o Recording
- o Review Listening Phase



- o Decision - Making Phase
- o Final or Operational Stage (Post Production)

**RECORDING :** In a way, the bulk of audio editing is largely predetermined by the way the material is recorded . For example, to allow for convenient edits at the post-production stage, it is advisable to let an audio to continue silent for just a few seconds. This will facilitate to bring in a designed transition and proper audio continuity while joining it to the next sequence. It is always wise to get some record wild track for audio clipping helps you to avoid a jump cut. Recording ambient sound on the audio track is also very important to provide continuity and transitions.

**Review phase:** This phase is essentially concerned with the listening of the Pre- recorded audio materials for their quality and suitability. In this phase the producer is required to listen, and time the audio program from beginning to end and prepare a detailed ‘\_LOG SHEET’, giving a brief description of portion and marking ‘\_Good’ or ‘\_NG’ (No Good). The review of intervals automatically leads you to the next phase i.e. the decision making phase.

**Decision making phase:** At this stage, the whole program story lies bare before you of course in disconnected sequences. Now you have a little more time to think and contemplate on the course of your editing in a rather patient way. Often you are forced to look at the log sheet or review the raw materials again and again to make your final editing decisions. Studying, and listening the raw materials- sequence-you begin to decide on the final sequence. It is at this stage that you re-clarify your ideas about the program. Discard all that is not required or does not contribute to your story. Look for missing gaps and re- record , if necessary. Finally prepare an ‘\_EDIT SCRIPT’ - indicating the order , mixing of sound and music, use of transition to ensure smooth flow. With a complete edit script; you are now ready for the final editing.

**Final Operational Stage:** The operational phase refers to the process in which the planned edits are actually performed using the edit script as a reference. Editing audio can be best learnt during the actual process with hands on the materials and the machines. Today, a variety of models and types of editing equipment, including computerized and Digital control units are available. These modern machines can perform the editing job with great speed, accuracy and precision. It is difficult to prescribe standard operation for all types of machines, because actual editing operation slightly varies from machine to



machine.

Depending on the particular editing technique followed, some of the steps shown here can be skipped. For example, if edit preview is not required, step 4 and 5 can be skipped. Remember that the initial portion of about 10 seconds of the tape is left blank. In actual editing phase, it is always important to estimate your editing time in advance. Book for all facilities and machines you need and all tapes, log sheets and edit scripts must kept ready by your side. Ideally, the editing task for a program must be so planned that it can be accomplished in one go, without interruption. Editing should not be noticeable. When final editing, the program must appear to be quite natural preserving its rhythm, continuity, flow and flavour

### Editing an Existing Audio File

The objective of this tutorial is to learn how to edit an audio file. To achieve this objective, we are going to import an existing sound file, remove all but 10 seconds of this file, apply a 1-second fade-out at the end, export the results, and play it in your favorite audio player. These steps will introduce the basic steps commonly used when editing the contents of an audio file.

#### Step 1: Find a file to edit

Audacity can import many common audio file formats, including **WAV**, **AIFF**, and **MP3**. If the optional mpeg library is installed, a larger range of formats, including **WMA** and the audio content of most video files, can be imported. Audacity cannot import copy-protected music files. If you want to edit music that you have on an *audio CD*, you need to "rip" the music into an audio file.

#### Step 2: Import the file into Audacity

First launch Audacity, then import an audio file by selecting **File > Import > Audio...**. A quicker method is to just drag and drop the file as in the following examples:





**Windows:** Drag the audio file icon into the open Audacity window.

**Mac:** Drag the audio file icon to the Audacity icon in the Dock (does not work for all formats yet).

**Linux:** Drag the audio file icon into the open Audacity window. All three platforms support:

**dragging the audio file into the Audacity window**

**dragging the audio file to the Audacity icon on the Desktop.**

- ☐ On Windows and Mac you can also drag to Audacity's icon in a file manager

Specific dragging behavior according to platform: program.

or

- ☐ On Mac and Linux you can drag the file to the Audacity icon in the Dock

Taskbar respectively to import the file into Audacity.

- ☐ On Windows, dragging the file to the Audacity icon in the Taskbar will either

switch the window

to Audacity if it is running (from where you can drag the file in), or if Audacity is closed, give the option to launch Audacity with the file imported.

**Command-line file importing:** On all three platforms you can also import files by launching Audacity at

the command-line and passing the files you wish to import as arguments. For example, on Linux



Ubuntu:

```
me@ubuntu:~$ audacity Desktop/song.mp3 Desktop/speech.wav
```

imports the "song.mp3" and "speech.wav" files located on the Desktop in separate Audacity windows.

### Step 3: Look at the waveform



This image above shows a stereo waveform. The left channel is displayed in the top half of the track and the right channel in the bottom half. The track name takes the name of the imported audio file ("No Town" in this example). Where the *waveform* reaches closer to the top and bottom of the track, the audio is louder (and vice versa). The ruler above the waveform shows you the length of the audio in minutes and seconds.

### Step 3: Listen to the imported audio



The image above shows Transport Toolbar. Click the *Play* button to listen to the audio. Click the *Stop* button to stop playback. If you don't hear anything, see Audacity Setup and Configuration. You can use the **SPACE** key on the keyboard as a shortcut for Play or Stop. Click on Selection Tool then click on the waveform to choose a place to start, then click the *Play* button. Click and drag to create a selection, and then when you click *Play* button only the selection will play.

**Keyboard use:** You can select audio entirely using the left arrow, right arrow and other keys.



**LEFT** or **RIGHT** to move the cursor left or right respectively in the waveform.

|| Press

|| | **SHIFT** while pressing **LEFT** or **RIGHT** to create then extend a selection leftwards or rightwards respectively.

|| | Press

**SHIFT** and **CTRL** while pressing **LEFT** or **RIGHT** to contract an existing selection leftwards or rightwards respectively. Clicking the *Skip to Start* button or pressing the **HOME** key will move the cursor to the beginning of the

track. It's kind of like rewind, but it's not for playback - it will only work when playback is stopped.

Similarly, clicking the *Skip to End* button or pressing the **END** key will move the cursor to the end of the track.

To jump the playback position forwards or backwards from where it is now, click on the Timeline above the waveform at the point you wish to hear.

**Keyboard use:** You can use the following keys to skip around the audio file while listening.

**LEFT** or , to move the playback cursor back one second.

|| Press

**RIGHT** or . to move the playback cursor forward one second.

Press **SHIFT** + **LEFT** or **SHIFT** + , to move the playback cursor back 15 seconds.

**SHIFT** + **RIGHT** or **SHIFT** + . to move the playback cursor forward 15 seconds.

The amount the cursor moves in this situation is called the "seek time". The *long* and *short* seek

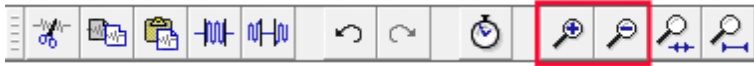
times (one second and 15 seconds in the examples above) can be set in the *Seek Time When Playing* section of Playback Preferences.

#### Step 4: Create a 10-second clip from your audio

You edit audio waveforms in Audacity in much the same way as you would edit text in a word processing document. When you are editing text you first select the text you want to change and then choose what you want to do with it. You might want to cut or copy the text, delete it, paste new text in its place, or change it to bold. You do the same thing in Audacity: first zoom and select the range of



audio you want to change, and then choose what you want to do with it.



The image above shows Edit Toolbar with the *Zoom buttons* highlighted. This is the *Zoom In* tool, and this is the *Zoom Out* tool. To zoom in to get a closer look at the waveform, first choose the *Selection Tool*, then click near the point you're interested in, then click the *Zoom In* button. Keep clicking the *Zoom In* button

until you see the detail you need. Note that when you click the *Zoom In* button the cursor is centered on the screen.

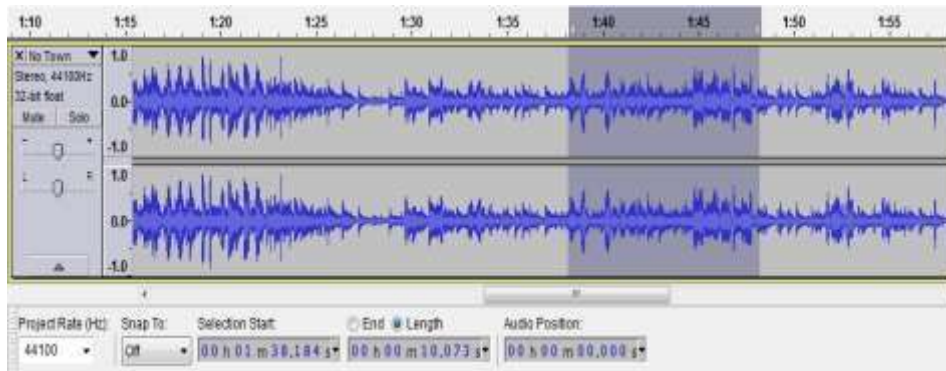
There are also menu commands and keyboard shortcuts for zooming. **View > Zoom In** (or **CTRL + I**) is the same as clicking the *Zoom In* button. **View > Zoom Out** (or **CTRL + 3**) is the same as clicking the *Zoom Out* button. **View > Fit In Window** (or **CTRL + F**) will zoom the waveform so it fits in the window. Use the Zoom commands so that you can make maximal use of your Audacity window to see as much detail as you need, or to make sure you see the entire file when necessary.

### **Walk through deleting all but approximately 10 seconds of selected audio**

To cut this audio file down to exactly 10 seconds, use these following steps.

1. With playback stopped, click near the point where you want the 10-second piece to begin.
2. Zoom in until the Timeline shows 10 seconds or more before and after the cursor.
3. While holding down the **SHIFT** key, click 10 seconds to the right of the cursor.

□ Note that this is just like selecting a range of text in a word processor



Press **SPACE** to listen to the entire selection. Playback will stop when the end of the selection is reached.

5. Adjust the start and end of the selection with the mouse as follows.

the cursor will change to the left point

☐ 5.1. Move the pointer over the start of the selection -

6. Press **SPACE** to listen to the adjusted selection. You don't have to listen to all of it;

☐ 5.2. Click and drag to adjust the beginning of the selection.

☐ 5.3. You can adjust the end of the selection by clicking on the end of the selection.

press **SPACE** again at any time to stop playback. move the mouse pointer a little after the start of the selection then press **B**. The selection plays from the start of the selection to the pointer. To hear the adjusted end of the selection, move the pointer close to the selection end, then press **B** to play from the pointer to the selection end.

lay a length of audio *either side* of the selection by pressing **C**.

☐ You can also p

This lets you make sure there is no audio you want to keep that will be removed.

Playing either side of the selection would also be useful if you later wanted to cut a small piece out of that selection - you would select the small piece to be cut, then could preview how the audio would sound after the cut.

To adjust the length of audio played before and after the selection, go to *Cut Preview* in the Playback Preferences.



**Keyboard use:** Use the arrow keys to adjust the selection start and end.

1. Pressing **SHIFT + LEFT** will expand the selection to the left.
2. Pressing **SHIFT + RIGHT** will expand the selection to the right.
3. Pressing **SHIFT + CTRL + LEFT** will contract the selection from the right.
4. Pressing **SHIFT + CTRL + RIGHT** will contract the selection from the left.

**Keyboard use:** Use Selection Toolbar to create or adjust a selection.

1. Without a mouse, use **CTRL + F6** to navigate into Selection Toolbar, then **TAB** between the controls.
  2. In "Selection Start", type the starting point of your selection if there is not yet a selection.
  3. Select the Length radio button above the second group of numbers in Selection Toolbar if it is not yet selected.
  4. **If there is no selection yet**, select the digit after the "m" in the "Length" box and type **1** (one) on your keyboard. This selects exactly 10.000 seconds from the starting point you chose.
  5. **Once there is a selection**, you can adjust its length in the same way. Let's suppose you dragged a little less than 10 seconds in the waveform, but you need the selection to be exactly 10 seconds.
1. Select the first digit to the right of the decimal point in the "Length" box.
  2. Type **0** (zero) - the digit changes to zero, the digit to the right is selected and the selection in the waveform changes to match.
  3. Type **0** (zero) twice more - the selection length is now 10.000 seconds, accurate to one thousandth of a second.

You've now selected the portion of the audio that you want to keep. Make sure you have pressed **SPACE** to stop if the track is still playing, then to delete everything *except* the selected audio,



click on **Edit > Remove Special > Trim Audio**.

If you make a mistake, you can always click on **Edit > Undo**. Audacity has unlimited Undo and Redo. You can undo your editing actions all the way back to when you imported the file. You can also Redo actions that you have undone.

You now have a region of audio that starts several seconds (or perhaps minutes) from the beginning of the track. You could move the audio to the beginning of the track, using **Tracks >**

**Align Tracks >Start to Zero**, but this isn't a necessary step because when exporting, Audacity will ignore the *white space* between time zero and the start of the audio.

### Step 5: Fade out the last second

*Skip to End* button .

|| Click the

☐ Zoom In until you can see the last two or three seconds of the waveform.

☐ Click in the waveform about 1 second before the end.

|| Click on

**Edit > Select > Cursor to Track End**.

**Effect > Fade Out**. The last second of the audio is smoothly faded

out. || Click on

Note that we always select some audio first, then choose what action we want to perform on it.

### Step 6: Export the resulting file

When you save an Audacity project with **File > Save Project** you are doing just that – saving an Audacity project. Audacity projects can be opened only by Audacity. If you want other programs (such as iTunes or Windows Media Player) to be able to open this file you need to **export** it.

Before we export this 10 second clip to a separate file we're going to simplify things a bit. Go to the Import / Export Preferences, and under *When exporting tracks to an audio file* uncheck "**Show Metadata Editor prior to export step**". Metadata Editor adds extra information about the speech or music into the file - see For More Information below to learn more. You can go back to the Import



**Editing** / Export Preferences at any time to re-enable Metadata Editor.

### Exporting a WAV file

**File > Export Audio...** - the standard "Save" dialog for your operating system appears. ☐ Click on

☐ Give the file a different name. Audacity always suggests a name for the file

☐ Choose a location to save the file in the usual manner.

that is the same as the name of your Audacity project. It is always best to alter this so you don't confuse your exported file with your Audacity project.

☐ At the bottom of the Save dialog is a dropdown menu labeled "

From this menu choose "WAV (Microsoft) signed 16-bit PCM".

☐ There are no options for the WAV file format, so there is no need to click the Options button.

☐ Click the Save button to complete the export of your project to a WAV file.

### Exporting an MP3 file

In order to export files from Audacity in MP3 format you will need to download and install the optional **LAME** MP3 encoder. Instructions are here . Once you have downloaded and installed the LAME encoder you will be able to create MP3 files using Audacity.

The steps for exporting a file in MP3 format are the same as for a WAV file,

*except:*

**Format** menu, choose "MP3 files"

☐ In the Save dialog, from the "





*bit rate* and other options for the MP3

☐ Then click the Options button to set the file.

### Step 7 - Testing your new Audio Production

To demonstrate the difference between an **Audacity project** (the AUP) file, and a sound file you **export from** an Audacity project:

**File > Close**, saving changes if asked.

☐ Find the AUP file on your computer and attempt to open it with the audio

player of your choice (for example iTunes, Windows Media Player). You can't.

☐ Find the exported WAV file on your computer and attempt to open it with the

audio player of your choice. Success!

You can't open an Audacity project in a media player. Only by exporting your project can you listen to it in a media player. Once you've exported your project you may want to keep the original project file (AUP) and its associated \_data folder around in case you want to make some changes to it in the future.

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## 15.3 Summary

Audio editing is the process of **modifying, arranging, and enhancing recorded sound** to produce a clear, professional, and engaging output. It is widely used in **radio, podcasts, music production, and film**. Editing can be done in **waveform view** (single-track) or **multitrack view** (combining multiple audio tracks).

Key aspects of audio editing include trimming, cutting, copying, pasting, fading, and crossfading audio clips to ensure smooth flow. Advanced techniques involve noise reduction, equalization, compression, normalization, and adding **effects** like reverb, echo, and pitch adjustment to enhance clarity and impact.

Audio editors must also focus on mixing and mastering, ensuring balanced volume levels,



proper stereo placement, and compatibility with different playback devices. Exporting in the correct file format, bit depth, and sample **rate** is crucial for maintaining audio quality.

Successful audio editing requires technical skill, creative sense, and critical listening to deliver a polished, engaging final product suitable for broadcast or digital distribution.

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### 15.4 Keywords

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- Audio Editing
- Waveform View
- Multitrack Editing
- Trim / Cut / Copy / Paste
- Fade / Crossfade
- Noise Reduction
- Equalization (EQ)

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### 15.5 Check your progress

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1. What is the main purpose of audio editing?
  - A) To write scripts for radio
  - B) To modify, enhance, and arrange recorded sound
  - C) To broadcast live news
  - D) To record interviews only
2. Which editing operation is used to gradually increase the volume at the beginning of a clip?
  - A) Crossfade
  - B) Fade-in
  - C) Compression
  - D) Noise reduction



3. Noise reduction in audio editing is used to:
  - A) Add background music
  - B) Remove unwanted sounds like hums and hiss
  - C) Increase pitch
  - D) Create echo effects
4. Multitrack editing allows:
  - A) Editing a single clip only
  - B) Combining and mixing multiple audio tracks
  - C) Exporting files only
  - D) Recording without editing
5. Which of the following is important while exporting audio for broadcast?
  - A) File format, sample rate, and bit depth
  - B) Number of tracks in the project only
  - C) Type of microphone used
  - D) Length of the original recording

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### 15.6 Answers Check your Progress

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1. B) To modify, enhance, and arrange recorded sound
2. B) Fade-in
3. B) Remove unwanted sounds like hums and hiss
4. B) Combining and mixing multiple audio tracks
5. A) File format, sample rate, and bit depth

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### 15.7 Self-Assessment Questions

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Q.1 Define audio editing and explain its importance in radio and digital media.



Q.2 Differentiate between waveform view and multi-track view in audio editing.

Q.3 List at least five common audio editing operations and briefly explain each.

Q.4 Explain the role of noise reduction and equalization in audio enhancement.

Q.5 What is compression, and why is it used in audio editing?

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### 15.8 References & Suggested Readings

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- Keith, M. C. (2010). *The Radio Station: Broadcast, Satellite & Internet*. Focal Press. Rumsey, F., & McCormick, T. (2014). *Sound and Recording: An Introduction*. Focal Press. Owsinski, B. (2017). *The Mixing Engineer's Handbook*. Cengage Learning.
- Bartlett, B., & Bartlett, J. (2009). *Practical Recording Techniques*. Focal Press. Holman, T. (2010). *Sound for Film and Television*. Focal Press.

### Suggested Readings

- White, P. (2012). *Audio Editing Tips and Techniques for Radio and Podcasting*. Routledge.
- Day, J. (2011). *Digital Audio Editing: A Comprehensive Guide*. CRC Press.
- Huber, D. M., & Runstein, R. E. (2013). *Modern Recording Techniques*. Focal Press.
- Rumsey, F. (2001). *Audio Postproduction for Digital Media*. Focal Press



## NOTES



## NOTES

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## NOTES

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