

**FACULTY OF VISUAL ARTS AND PERFORMING ARTS**

**SYLLABUS**

**FOR**

**BACHELOR OF VOCATION (B.Voc.)  
SOUND TECHNOLOGY  
(Semester: I – IV)**

**Session: 2015-16**



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**GURU NANAK DEV UNIVERSITY,  
AMRITSAR.**

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BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER SYSTEM

**Eligibility:**

+2 pass in any stream.

**SCHEME OF COURSE**

**Semester – I:**

S.No.	Subject	Theory	Practical	Total Marks	Time Allowed for Exam
1	Introduction to Computers and Digital Audio	50	50	100	3 Hrs. each
2	Basics of Music - I	50	50	100	3 Hrs. each
3	Audio Production Lab. – I	-	50	50	3 Hrs.
4	Performing Arts	50	-	50	3 Hrs.
5	Communication Skills in English – I	-	-	50	3 Hrs.
6	Punjabi / Mudhli Punjabi	-	-	50	3 Hrs.

**Semester – II:**

S.No.	Subject	Theory	Practical	Total Marks	Time Allowed for Exam
1	Introduction to Sound Technology	50	50	100	3 Hrs. each
2	Basics of Music - II	50	50	100	3 Hrs. each
3	Audio Production Lab. – II	-	50	50	3 Hrs.
4	Media Appreciation	50	-	50	3 Hrs.
5	Communication Skills in English – II	35	15	50	3 Hrs.
6	Punjabi / Mudhli Punjabi	-	-	50	3 Hrs.

**Instructions for Paper Setter:**

**For all theory papers same pattern should be followed.**

**Section A:** 7 Very short answer type questions should be set out of which 5 have to be attempted of 2 marks each. (2x5 = 10)

**Section B:** 7 long answer type questions should be set out of which 4 have to be attempted of 10 marks each. (10x4 = 40)

**Section A** : 10 Marks

**Section B** : 40 Marks

**Total** : 50 Marks

**Note:** Practical Examiner can ask questions from the theory portion also.

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 BACHELOR OF VOCATION (B.Voc.)  
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**Semester – III:**

S.No.	Subject	Theory	Practical	Total Marks	Time Allowed for Exam
1.	Sound Recording and Mixing (Theory)	50	—	50	3 Hrs.
	Sound Recording and Mixing (Practical)	—	50	50	3 Hrs.
2.	Basics of Musical Composition (Theory)	50	—	50	3 Hrs.
	Basics of Musical Composition (Practical)	—	50	50	3 Hrs.
3.	Audio Production Lab. – III (Practical)	—	50	50	3 Hrs.
4.	Personality Development – I (Practical)	—	50	50	3 Hrs.
5.	Production Management (Theory)	50	—	50	3 Hrs.
	Production Management (Practical)	—	50	50	3 Hrs.
6.	Environmental Studies–I	50	—	50	
<b>Total:</b>		<b>150</b>	<b>250</b>	<b>400</b>	

**Semester –IV**

S.No.	Subject	Theory	Practical	Total Marks	Time Allowed for Exam
1.	Sound Studio Management (Theory)	50	—	50	3 Hrs.
	Sound Studio Management (Practical)	—	50	50	3 Hrs.
2.	Electronic Music Production (Theory)	50	—	50	3 Hrs.
	Electronic Music Production (Practical)	—	50	50	3 Hrs.
3.	Audio Production and Multimedia (Practical)	—	100	100	3 Hrs.
4.	Personality Development – II (Practical)	—	50	50	3 Hrs.
5.	Production Design Workshop	50	—	50	
6.	Environmental Studies–II	50	—	50	
<b>Total:</b>		<b>150</b>	<b>250</b>	<b>400</b>	

\* Marks of Paper EVS will not be included in Grand Total.

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – I

**1. INTRODUCTION TO COMPUTERS AND DIGITAL AUDIO (Theory)**

**Time: 3 Hrs. each**

**Total: 100 Marks**  
**Theory: 50 Marks**

**Unit – I**

- Introduction to Computers: Application, Input and Output Devices
- Storage Technologies: Optical Disks such as CDROM, DVD and Blue-Ray Disc  
Removable Media such as Memory Cards, USB Drives, External HDD
- Working with Windows, Difference between Windows and Macintosh
- Working with MS-Office, Introduction to MS-Word and MS-Powerpoint, various operations on a file, Page setup

**Unit – II**

- Internet: History, Working, Internet Services, The World Wide Web, Web Browsers
- Social Media, Blogs, Video Channels, Mobile Devices (Smartphone, Tablets, etc.)

**Unit – III**

- Digital Audio: Audio Sampling Rate, Bit Depth,  
Various File Formats: MP3, WMA, WAVE (PCM), AIFF, M4A, OGG, RA & RM  
Mono vs Stereo, Role of Sound Card

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – I

**INTRODUCTION TO COMPUTERS AND DIGITAL AUDIO (Practical)**

**Time: 3 Hrs.**

**Practical: 50 Marks**

Practical will be based on operational Knowledge of:

- Basic Window Functions
- MS-Office (Basic MS-Word & MS-Powerpoint)
- Internet and Digital Audio

**Suggested Readings:**

1. Windows Based Computer Courses by Gurvinder Singh and Rashpal Singh
2. MS-Office by BPB Publications
3. Computer Fundamentals by P.K. Sinha
4. Introduction to Computers by N. Subramanian
5. Introduction to Computers by Peter Norton
6. Introduction to Software Packages by R.K. Taxali
7. How to Do Everything with MP3 and Digital Music by Dave Johnson and Rick Broida

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – I

**2. BASICS OF MUSIC – I (Theory)**

**Time: 3 Hrs. each**

**Total: 100 Marks  
Theory: 50 Marks**

**Unit-I**

Definitions: Swar, Alankar, Laya, Matra, Taal, Sam, Tali, Khali

Importance of Laya in Music

**Unit-II**

Study of Various Instruments: Harmonium, Tanpura, Tabla, Keyboard, Guitar

Writing of Taals: Teen Taal, Kehrawa in Ekgun & Dugun Layakaries in proper Noation

**Unit-III**

Fundamentals of "Western" Music

Music Genres (Country, Hip Hop, Jazz, Pop, Rock, Folk, Blues, Electronic)

Concepts and Applications of Melody, Harmony, Form, Chord

Music Notation, Oral and Written intervals, Rhythm, Scales, Chords

Octave, Semitone.

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – I

**BASICS OF MUSIC – I (Practical)**

**Time: 3 Hrs.**

**Practical: 50 Marks**

Basic Playing Techniques: Harmonium, Tanpura, Tabla, Keyboard, Guitar

One Cinematic Song Presentation in Raag Yaman

Teen Taal & Kehrawa on Tabla

Practical knowledge of Notes & Scale

**Suggested Readings:**

1. Rag Parichya Part – I, II, and III by Shri Harish Chnder Srivastava
2. Sangeet Vishard Sangeet Karayalya, Hathras
3. Sangeet Nibandhavli, Dr. Gurnam Singh, published by Punjabi University, Patiala
4. Raag Parichey (Part 1, 2) by H.C.Shrivastava
5. Sangeet Shaster Darpan (Part–1, 2) by Shanti Gowardhan
6. Sangeet Subodh by Dr. Davinder Kaur
7. Alfred's Basic Guitar Method, Book 1 by Morton Manus, Ron Manus
8. Music Basics for Guitarists: Learn the Fundamentals of Music Theory, Chord Progressions, Scales, Notation, and More by String Letter Publishing

BACHELOR OF VOCATION (B.Voc.)  
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**3. AUDIO PRODUCTION LAB. – I (Practical)**

**Time: 3 Hrs.**

**Practical: 50 Marks**

**Unit – I**

Understanding Digital Audio

Working with various Audio file formats

Basic file operations

Working with Mono and Stereo Files

Audio Sampling Rate and Audio Bit Depth

**Unit – II**

Function of a Sound Card

Adjusting Windows Audio Properties

Speakers, Microphone, Line-in Levels

Audio CD: CD Burning, Extracting Audio from CD

Working with Media Players

**Unit – III**

Basic Sound Editing

Select an Editing tool

Make a selection

Trim/Cut/Crop

Inserting Markers, use of Markers

Adjusting Volume

**Software:** Sound Forge

**Suggested Readings:**

1. Sound Check: The Basics of Sound and Sound Systems by Tony Moscal
2. Back to Basics Audio by Julian Nathan
3. Sound Forge Pro in Simple Steps by Kogent Learning Solutions Inc.
4. Sound Forge Power! by Scott R. Garrigus
5. The Audio Expert: Everything You Need to Know About Audio by Ethan Winer
6. How to Do Everything with MP3 and Digital Music by Dave Johnson and Rick Broida

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – I

**4. PERFORMING ARTS (Theory)**

**Time: 3 Hrs.**

**Theory: 50 Marks**

**Unit-I**

Indian Music: Vedic, Traditional, Classical, Devotional, Ghazal, Folk, Sufi, Film Music

Traditional Indian Instruments

Western/Other Music Forms, Styles, Genres

**Unit-II**

Theatrical Styles and Techniques

Skit, Mimicry, Mime, One Act Play

Radio Theatre, Musical Plays

**Unit-III**

Classical Dance, Indian Folk and Tribal Dance

Contemporary Dance

Dance Dramas, Ballet

**Suggested Readings:**

1. Indian Theatre by N.C. Jain
2. A Guide to North Indian Classical Vocal Music by Indurama Srivastava
3. Sangeet Nibandhavli by Dr. Gurnam Singh
4. Indian Music History & Structure by Emmie Te Nijenhuis
5. Art of Theatre by Gordan Craig Edward
6. Indian Classical Dance by Shovan Narayan
7. Exploring Dance Forms and Styles by Helena Scheff, Marty Sprague, Susan McGreevy-Nicholas
8. Popular Music Genres: An Introduction by Stuart Borthwick, Ron Moy
9. Genre in Popular Music by Fabian Holt

## 5. Communication Skills in English – I

**Time: 3 Hours**

**Max. Marks: 50**

### Course Contents:

**1. Reading Skills:** Reading Tactics and strategies; Reading purposes–kinds of purposes and associated comprehension; Reading for direct meanings; Reading for understanding concepts, details, coherence, logical progression and meanings of phrases/ expressions.

#### Activities:

- a) Active reading of passages on general topics
- b) Comprehension questions in multiple choice format
- c) Short comprehension questions based on content and development of ideas

**2. Writing Skills:** Guidelines for effective writing; writing styles for application, resume, personal letter, official/ business letter, memo, notices etc.; outline and revision.

#### Activities:

- a) Formatting personal and business letters.
- b) Organising the details in a sequential order
- c) Converting a biographical note into a sequenced resume or vice-versa
- d) Ordering and sub-dividing the contents while making notes.
- e) Writing notices for circulation/ boards

### Suggested Pattern of Question Paper:

The question paper will consist of five skill-oriented questions from Reading and Writing Skills. Each question will carry 10 marks. The questions shall be phrased in a manner that students know clearly what is expected of them. There will be internal choice wherever possible.

**10x5=50 Marks**

- i) Multiple choice questions on the language and meanings of an unseen passage.
- ii) Comprehension questions with short answers on content, progression of ideas, purpose of writing etc. of an unseen passage.
- iii) Personal letter and Official/Business correspondence
- iv) Making point-wise notes on a given speech/ technical report OR  
Writing notices for public circulation on topics of professional interest
- v) Do as directed (10x1= 10 Marks) (change of voice, narration, combination of 2 simple sentences into one, subject-verb agreement, using appropriate tense, forms of verbs.

### Recommended Books:

1. *Oxford Guide to Effective Writing and Speaking* by John Seely.
2. *English Grammar in Use* (Fourth Edition) by Raymond Murphy, CUP

**Paper-VI: ਪੰਜਾਬੀ (ਲਾਜ਼ਮੀ)**

ਸਮਾਂ : 3 ਘੰਟੇ

ਕੁਲ ਅੰਕ : 50

ਪਾਠ-ਕ੍ਰਮ ਅਤੇ ਪਾਠ-ਪੁਸਤਕਾਂ

1. **ਗਿਆਨ ਮਾਲਾ** (ਵਿਗਿਆਨਕ ਤੇ ਸਮਾਜ-ਵਿਗਿਆਨਕ ਲੇਖਾਂ ਦਾ ਸੰਗ੍ਰਹਿ),  
(ਸੰਪਾ. ਡਾ. ਸਤਿੰਦਰ ਸਿੰਘ, ਪ੍ਰੋ. ਮਹਿੰਦਰ ਸਿੰਘ ਬਨਵੈਤ), ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ,  
ਅੰਮ੍ਰਿਤਸਰ।  
ਲੇਖ : ਪਹੀਆ ਪ੍ਰਦੂਸ਼ਣ, ਭਰੂਣ ਹੱਤਿਆ ਦੇ ਦੇਸ਼ ਵਿਚ, ਨਾਰੀ ਸ਼ਕਤੀ, ਵਾਤਾਵਰਣੀ ਪ੍ਰਦੂਸ਼ਣ  
ਅਤੇ ਮਨੁੱਖ, ਏਡਜ਼ : ਇਕ ਗੰਭੀਰ ਸੰਕਟ।
2. **ਆਤਮ ਅਨਾਤਮ** (ਸੰਪ. ਸੁਹਿੰਦਰ ਬੀਰ ਅਤੇ ਵਰਿਆਮ ਸਿੰਘ ਸੰਧੂ)  
(ਪ੍ਰੋ. ਮੋਹਨ ਸਿੰਘ, ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ, ਸ਼ਿਵ ਕੁਮਾਰ ਬਟਾਲਵੀ, ਸੁਰਜੀਤ ਪਾਤਰ, ਪਾਸ਼)  
ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ।
3. **ਪੈਰੂਾ ਰਚਨਾ**
4. **ਪੈਰੂਾ ਪੜ੍ਹ ਕੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ।**
5. (ੳ) **ਪੰਜਾਬੀ ਧੁਨੀ ਵਿਉਂਤ** : ਉਚਾਰਨ ਅੰਗ, ਉਚਾਰਨ ਸਥਾਨ ਤੇ ਵਿਧੀਆਂ, ਸਵਰ, ਵਿਅੰਜਨ, ਸੁਰ।  
(ਅ) **ਭਾਸ਼ਾ ਵੰਨਗੀਆਂ** : ਭਾਸ਼ਾ ਦਾ ਟਕਸਾਲੀ ਰੂਪ, ਭਾਸ਼ਾ ਅਤੇ ਉਪ-ਭਾਸ਼ਾ ਦਾ ਅੰਤਰ, ਪੰਜਾਬੀ  
ਉਪਭਾਸ਼ਾਵਾਂ ਦੇ ਪਛਾਣ-ਚਿੰਨ੍ਹ।
6. **ਮਾਤ ਭਾਸ਼ਾ ਦਾ ਅਧਿਆਪਨ**  
(ੳ) ਪਹਿਲੀ ਭਾਸ਼ਾ ਦੇ ਤੌਰ ਉੱਤੇ  
(ਅ) ਦੂਜੀ ਭਾਸ਼ਾ ਦੇ ਤੌਰ ਉੱਤੇ

**ਅੰਕ-ਵੰਡ ਅਤੇ ਪਰੀਖਿਅਕ ਲਈ ਹਦਾਇਤਾਂ:**

1. ਕਿਸੇ ਨਿਬੰਧ ਦਾ ਸਾਰ ਜਾਂ ਉਸਦਾ ਵਿਸ਼ਾ ਵਸਤੂ (ਦੋ ਵਿਚੋਂ ਇਕ) । 10 ਅੰਕ
2. **ਆਤਮ ਅਨਾਤਮ** : ਸਾਰ, ਵਿਸ਼ਾ-ਵਸਤੂ, ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ, ਕਲਾ ਪੱਖ 10 ਅੰਕ
3. ਪੈਰੂਾ ਰਚਨਾ : ਤਿੰਨ ਵਿਸ਼ਿਆਂ ਵਿਚੋਂ ਕਿਸੇ ਇਕ ਉੱਤੇ ਪੈਰੂਾ ਲਿਖਣ ਲਈ 05 ਅੰਕ  
ਕਿਹਾ ਜਾਵੇ ।
4. ਪੈਰੂਾ ਦੇ ਕੇ ਉਸ ਬਾਰੇ ਪੰਜ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ। 05 ਅੰਕ
5. ਨੰਬਰ 5 ਉੱਤੇ ਦਿੱਤੀ ਵਿਆਕਰਣ ਦੇ ਆਧਾਰ 'ਤੇ ਵਰਣਨਾਤਮਕ ਪ੍ਰਸ਼ਨ। 10 ਅੰਕ
6. ਨੰਬਰ 6 ਵਿਚ ਮਾਤ ਭਾਸ਼ਾ ਦੇ ਪਹਿਲੀ ਭਾਸ਼ਾ ਅਤੇ ਦੂਜੀ ਭਾਸ਼ਾ ਵਜੋਂ  
ਅਧਿਆਪਨ, ਮਹੱਤਵ ਅਤੇ ਸਮੱਸਿਆਵਾਂ ਬਾਰੇ ਚਾਰ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ,  
ਜਿਨ੍ਹਾਂ ਵਿਚੋਂ ਵਿਦਿਆਰਥੀ ਨੇ ਦੋ ਦਾ ਉੱਤਰ ਦੇਣਾ ਹੋਵੇਗਾ। 5×2=10 ਅੰਕ

**Paper-VI: ਮੁੱਢਲੀ ਪੰਜਾਬੀ**  
(In lieu of Punjabi Compulsory)

**ਪਾਠ-ਕ੍ਰਮ**

**ਸਮਾਂ : ਤਿੰਨ ਘੰਟੇ**

**ਕੁੱਲ ਅੰਕ : 50**

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|--|--------|
| 1. ਪੰਜਾਬੀ ਭਾਸ਼ਾ<br>ਗੁਰਮੁਖੀ ਲਿਪੀ<br>ਗੁਰਮੁਖੀ ਲਿਪੀ : ਬਣਤਰ ਅਤੇ ਤਰਤੀਬ               | 20 ਅੰਕ |
| 2. ਗੁਰਮੁਖੀ ਆਰਥੋਗ੍ਰਾਫੀ<br>ਸ੍ਰਾਰਾਂ ਦੀ ਵੰਡ ਅਤੇ ਉਚਾਰਨ<br>ਵਿਅੰਜਨਾਂ ਦੀ ਵੰਡ ਅਤੇ ਉਚਾਰਨ | 15 ਅੰਕ |
| 3. ਪੰਜਾਬੀ ਸ਼ਬਦ-ਬਣਤਰ ਅਤੇ ਰਚਨਾ<br>ਸਾਧਾਰਨ ਸ਼ਬਦ<br>ਨਿੱਤ ਵਰਤੋਂ ਦੀ ਪੰਜਾਬੀ ਸ਼ਬਦਾਵਲੀ   | 15 ਅੰਕ |

**ਯੂਨਿਟ ਅਤੇ ਥੀਮ:**

ਪੰਜਾਬੀ ਭਾਸ਼ਾ : ਨਾਮਕਰਣ ਅਤੇ ਸੰਖੇਪ ਜਾਣ ਪਛਾਣ, ਗੁਰਮੁਖੀ ਲਿਪੀ : ਨਾਮਕਰਣ, ਗੁਰਮੁਖੀ ਵਰਣਮਾਲਾ; ਪੈਂਤੀ ਅੱਖਰੀ, ਅੱਖਰ ਕ੍ਰਮ, ਸ੍ਰਾਰ ਵਾਹਕ (ੳ ਅ ਈ), ਲਗਾਂ ਮਾਤਰਾਂ, ਪੈਰ ਵਿਚ ਬਿੰਦੀ ਵਾਲੇ ਵਰਣ, ਪੈਰ ਵਿਚ ਪੈਣ ਵਾਲੇ ਵਰਣ, ਬਿੰਦੀ, ਟਿੱਪੀ, ਅੱਧਕ।

ਗੁਰਮੁਖੀ ਆਰਥੋਗ੍ਰਾਫੀ ਅਤੇ ਉਚਾਰਨ; ਸ੍ਰਾਰਾਂ ਦੀ ਵੰਡ ਅਤੇ ਉਚਾਰਨ (ਲਘੂ-ਦੀਰਘ ਸ੍ਰਾਰ); ਸ੍ਰਾਰ ਅਤੇ ਲਗਾਂ ਮਾਤਰਾਂ; ਵਿਅੰਜਨਾਂ ਦੀ ਵੰਡ ਅਤੇ ਉਚਾਰਨ; ਪੈਰ ਵਿਚ ਪੈਣ ਵਾਲੇ ਵਰਣਾਂ (ਹ, ਰ, ਵ) ਦਾ ਉਚਾਰਨ; ਲ ਅਤੇ ਲ ਦਾ ਉਚਾਰਨ; ਭ, ਧ, ਢ, ਝ, ਞ ਦਾ ਉਚਾਰਨ; ਪੈਰ ਵਿਚ ਬਿੰਦੀ ਵਾਲੇ ਵਰਣਾਂ ਦਾ ਉਚਾਰਨ।

ਪੰਜਾਬੀ ਸ਼ਬਦ-ਬਣਤਰ ਅਤੇ ਰਚਨਾ: ਸਾਧਾਰਨ ਸ਼ਬਦ; ਇਕੱਲਾ ਸ੍ਰਾਰ (ਜਿਵੇਂ ਆ); ਸ੍ਰਾਰ ਅਤੇ ਵਿਅੰਜਨ (ਜਿਵੇਂ ਆਰ); ਵਿਅੰਜਨ ਅਤੇ ਸ੍ਰਾਰ (ਜਿਵੇਂ ਪਾ); ਵਿਅੰਜਨ ਸ੍ਰਾਰ ਵਿਅੰਜਨ (ਜਿਵੇਂ ਪਾਰ); ਪੰਜਾਬੀ ਸ਼ਬਦ ਰਚਨਾ; ਲਿੰਗ-ਪੁਲਿੰਗ, ਇਕ ਵਚਨ-ਬਹੁ ਵਚਨ; ਨਿੱਤ ਵਰਤੋਂ ਦੀ ਪੰਜਾਬੀ ਸ਼ਬਦਾਵਲੀ; ਖਾਣ-ਪੀਣ ਅਤੇ ਸਾਕਾਦਾਰੀ ਨਾਲ ਸੰਬੰਧਿਤ।

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – I

**ਅੰਕ-ਵੰਡ ਅਤੇ ਪਰੀਖਿਅਕ ਲਈ ਹਦਾਇਤਾਂ:**

1. ਪਹਿਲੇ ਯੂਨਿਟ ਵਿੱਚੋਂ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੀ ਬਣਤਰ ਅਤੇ ਤਰਤੀਬ ਨਾਲ ਸਬੰਧਿਤ 5-5 ਅੰਕਾਂ ਦੇ ਚਾਰ ਵਿਹਾਰਕ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਇਕ-ਇਕ ਜਾਂ ਦੋ-ਦੋ ਅੰਕਾਂ ਦੇ ਛੋਟੇ ਪ੍ਰਸ਼ਨਾਂ ਵਿਚ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ।
2. ਦੂਜੇ ਯੂਨਿਟ ਵਿੱਚੋਂ ਗੁਰਮੁਖੀ ਆਰਥੋਗ੍ਰਾਫੀ ਅਤੇ ਉਚਾਰਨ ਨਾਲ ਸਬੰਧਿਤ 5-5 ਅੰਕਾਂ ਦੇ ਤਿੰਨ ਵਿਹਾਰਕ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਇਕ-ਇਕ ਜਾਂ ਦੋ-ਦੋ ਅੰਕਾਂ ਦੇ ਛੋਟੇ ਪ੍ਰਸ਼ਨਾਂ ਵਿਚ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ।
3. ਤੀਜੇ ਯੂਨਿਟ ਵਿੱਚੋਂ ਪੰਜਾਬੀ ਸ਼ਬਦ-ਬਣਤਰ ਅਤੇ ਸ਼ਬਦ ਰਚਨਾ ਨਾਲ ਸਬੰਧਿਤ 5-5 ਅੰਕਾਂ ਦੇ ਦੋ ਵਿਹਾਰਕ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਇਕ-ਇਕ ਜਾਂ ਦੋ-ਦੋ ਅੰਕਾਂ ਦੇ ਛੋਟੇ ਪ੍ਰਸ਼ਨਾਂ ਵਿਚ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ।
4. ਨਿੱਤ ਵਰਤੋਂ ਦੀ ਪੰਜਾਬੀ ਸ਼ਬਦਾਵਲੀ ਨਾਲ ਸਬੰਧਿਤ ਇਕ-ਇਕ ਅੰਕ ਦੇ ਪੰਜ (ਆਬਜੈਕਟਿਵ) ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
5. ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਭਾਸ਼ਾ ਸਰਲ ਅਤੇ ਸਪਸ਼ਟ ਰੱਖੀ ਜਾਵੇ।

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – II

**1. INTRODUCTION TO SOUND TECHNOLOGY (Theory)**

**Time: 3 Hrs. each**

**Total: 100 Marks**  
**Theory: 50 Marks**

**Unit – I**

Basic Physics of Sound

Sound and Vibration, Samples

Waveforms & Wave Tables, Characteristics of Sound Waves

Frequency, Amplitude, Wavelength, Phase and Phase Shift, Harmonic content

Behavior of sound in rooms, Echoes, Reverberation, Modulation

**Unit – II**

Aesthetics of Sound

Sound Recording, Sound Design, Sound Editing & Mixing

Visual perception versus Sound perception

Dubbing & Post Synchronization

Foley Recording

**Unit – III**

The future of Sound Technology

Surround Sound, Dolby Digital in cinema

Digital sampler and synthesizer generated sounds

Film music in the 21st century

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – II

**INTRODUCTION TO SOUND TECHNOLOGY (Practical)**

**Time: 3 Hrs.**

**Practical: 50 Marks**

Basic Sound Recording Operations

Difference between Analogue & Digital Recording

Recording Speech and Voice Over

Introduction to Dubbing, Foley Recording

**Suggested Readings:**

1. Sound Check: The Basics of Sound and Sound Systems by Tony Moscal
2. Back to Basics Audio by Julian Nathan
3. Surround Sound by Tomlinson Holman
4. The Audio Expert: Everything You Need to Know About Audio by Ethan Winer
5. Computer Sound Design: Synthesis techniques and programming (Music Technology) by Eduardo Miranda
6. Computational Thinking in Sound: Teaching the Art and Science of Music and Technology by Gena R. Greher and Jesse M. Heines
7. Dhvani Aur Sangeet by Lalit Kishore Singh

**2. BASICS OF MUSIC – II (Theory)**

**Time: 3 Hrs. each**

**Total: 100 Marks**  
**Theory: 50 Marks**

**Unit-I**

Definitions: Sangeet, Naad, Shruti

Notation of Drut Khayal in Raag Bhairav

Light Music, Bhajan/Devotional, Folk Songs, Sufi, Gazhal

**Unit-II**

Study of Various Instruments: Drums, Octapad, Flute, Sitar

Writing of Taals: Teen Taal, Ek Taal, Dadra and Kehrawa upto Chargin Layakaries in proper  
Noation

**Unit-III**

Notes and Stems, Note Heads

Dynamics and Symbols, Bar Lines

Major and Minor Chords

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(SOUND TECHNOLOGY) SEMESTER – II

**BASICS OF MUSIC – II (Practical)**

**Time: 3 Hrs.**

**Practical: 50 Marks**

One Vocal Composition in Raag Bhairav

Basic Playing Techniques: Flute, Sitar, Drums, Octapad

Ektaal & Dadra on Tabla

Practical Knowledge of Chord Progression (Major & Minor)

**Suggested Readings:**

1. Rag Parichya Part – I, II, and III by Shri Harish Chnder Srivastava
2. Sangeet Vishard Sangeet Karayalya, Hathras
3. Sangeet Nibandhavli, Dr. Gurnam Singh, published by Punjabi University, Patiala
4. Raag Parichey (Part 1, 2) by H.C.Shrivastava
5. Sangeet Shaster Darpan (Part–1, 2) by Shanti Gowardhan
6. Sangeet Subodh by Dr.Davinder Kaur
7. Alfred's Basic Guitar Method, Book 1 by Morton Manus, Ron Manus
8. Music Basics for Guitarists: Learn the Fundamentals of Music Theory, Chord Progressions, Scales, Notation, and More by String Letter Publishing

**3. AUDIO PRODUCTION LAB. – II (Practical)****Time: 3 Hrs.****Max. Marks: 50****Unit – I**

Sound Editing: Audio Restoration, Noise Reduction

Mix and Cross-fade

Choosing an input device &amp; adjust levels

Mark in and Mark out

Convert marker to region

**Unit – II**

Sound Processes: Auto trim/crop, Bit–depth converter, Channel converter

Fade, Insert silence, Invert / flip, Mute

Normalize, Pan / expand, Resample

Reverse, Smooth/ enhance

Swap channel. Time stretch, Volume

**Unit – III**

Sound Effects: Acoustic mirror, Amplitude modulation, Chorus

Delay / Echo, Distortion, Dynamic, Envelope

Flange/ Wah–Wah, Crapper/ Snipper, Noise gate

Pitch, Reverb, Vibrate, Wave hammer

**Software:** Sound Forge**Suggested Readings:**

1. Sound Forge Pro in Simple Steps by Kogent Learning Solutions Inc.
2. Sound Forge Power! by Scott R. Garrigus
3. The Audio Expert: Everything You Need to Know About Audio by Ethan Winer
4. Understanding Digital Music and Sound Forge by D. Sen
5. PC Audio Editing: From broadcasting to home CD by Roger Derry

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**4. MEDIA APPRCIATION (Theory)**

**Time: 3 Hrs.**

**Max. Marks: 50**

**Unit-I**

Origin and growth of Films in the world

Development of Cinema in India

Types of Films: War Films, Horror Films, Detective, Thriller and Spy Films, Science Fiction,

Documentary Films

Ad Films

**Unit-II**

Brief history of sound and music in Films

Silent films, early sound films (Talkies)

Directors as sound pioneers

Audience reception on image and music

Psychological, Associative, and Emotional impact of Sound & Music

**Unit-III**

Growth and Development of Radio and Television in India

Emerging trends of Radio and Television, FM Radio

Satellite Radio & TV, D2H, IPTV

**Suggested Readings:**

1. Film History: An Introduction (2nd ed.) by Kristin Thompson & David Bordwell
2. History of Indian Cinema by R Saran
3. Bollywood: A History by Mihir Bose
4. Genre and Contemporary Hollywood by Steve Neal
5. Cinema Studies, The Key Concepts (3rd ed.) by Susan Haywood
6. An Introduction to Film Studies by Jill Nelmes
7. Broadcasting in India by P.C. Chatterjee
8. This is All India Radio by P.C. Chatterjee
9. Digital Sound Processing for Music and Multimedia by Ross Kirk, Andy Hunt

**Paper–V: COMMUNICATION SKILLS IN ENGLISH – II****Time: 3 Hours****Max. Marks: 50****Theory Marks: 35****Practical Marks: 15****Course Contents:**

- 1. Listening Skills:** Barriers to listening; effective listening skills; feedback skills. Attending telephone calls; note taking.

**Activities:**

- a) Listening exercises – Listening to conversation, News and TV reports
- b) Taking notes on a speech/lecture

- 2. Speaking and Conversational Skills:** Components of a meaningful and easy conversation; understanding the cue and making appropriate responses; forms of polite speech; asking and providing information on general topics.

The study of sounds of English, stress  
Situation based Conversation in English  
Essentials of Spoken English

**Activities:**

- a) Making conversation and taking turns
- b) Oral description or explanation of a common object, situation or concept
- c) Giving interviews

**Suggested Pattern of Question Paper:**

The question paper will consist of seven questions related to speaking and listening Skills. Each question will carry 5 marks. The nature of the questions will be as given below:-

**Two** questions requiring students to give descriptive answers.

**Three** questions in the form of practical exercises requiring students to give an appropriate response to a question, a proposal, a proposition, an invitation etc. For example, the paper setter may give a proposition and ask the students to agree or disagree with it or introduce a character giving invitations and ask the students to accept or refuse it etc.

**Two** questions requiring students to transcribe simple words in IPA symbols, marking stress.

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(SOUND TECHNOLOGY) SEMESTER – II

**PRACTICAL / ORAL TESTING**

**Marks: 15**

**Course Contents:**

1. Oral Presentation with/without audio visual aids.
2. Group Discussion.
3. Listening to any recorded or live material and asking oral questions for listening comprehension.

**Questions:**

1. Oral Presentation will be of 5 to 10 minutes duration. (Topic can be given in advance or it can be of student's own choice). Use of audio visual aids is desirable.
2. Group discussion comprising 8 to 10 students on a familiar topic. Time for each group will be 15 to 20 minutes.

**Note:** Oral test will be conducted by external examiner with the help of internal examiner.

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**Paper–VI: ਪੰਜਾਬੀ (ਲਾਜ਼ਮੀ)**

ਸਮਾਂ : 3 ਘੰਟੇ

ਕੁਲ ਅੰਕ : 50

**ਪਾਠ-ਕ੍ਰਮ ਅਤੇ ਪਾਠ-ਪੁਸਤਕਾਂ**

1. **ਗਿਆਨ ਮਾਲਾ** (ਵਿਗਿਆਨਕ ਤੇ ਸਮਾਜ-ਵਿਗਿਆਨਕ ਲੇਖਾਂ ਦਾ ਸੰਗ੍ਰਹਿ)  
(ਸੰਪ. ਡਾ. ਸਤਿੰਦਰ ਸਿੰਘ, ਪ੍ਰੋ. ਮਹਿੰਦਰ ਸਿੰਘ ਬਨਵੈਤ), ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ,  
ਅੰਮ੍ਰਿਤਸਰ, 2007  
ਲੇਖ : ਸਾਹਿਤ ਤੇ ਲੋਕ ਸਾਹਿਤ, ਅੱਖਾਂ, ਅਚੇਤਨ ਦਾ ਗੁਣ ਤੇ ਸੁਭਾਅ, ਕੰਪਿਊਟਰ ਅਤੇ  
ਇੰਟਰਨੈੱਟ, ਮਨੁੱਖੀ ਅਧਿਕਾਰ।
2. **ਆਤਮ ਅਨਾਤਮ** (ਸੰਪ. ਸੁਹਿੰਦਰ ਬੀਰ ਅਤੇ ਵਰਿਆਮ ਸਿੰਘ ਸੰਧੂ) (ਕਹਾਣੀਆਂ)  
**ਪਠਾਣ ਦੀ ਧੀ** (ਸੁਜਾਨ ਸਿੰਘ), **ਸਾਂਝੀ ਕੰਧ** (ਸੰਤੋਖ ਸਿੰਘ ਧੀਰ), **ਉਜਾੜ** (ਕੁਲਵੰਤ ਸਿੰਘ  
ਵਿਰਕ), **ਘੋਟਣਾ** (ਮੋਹਨ ਭੰਡਾਰੀ), **ਦਲਦਲ** (ਵਰਿਆਮ ਸਿੰਘ ਸੰਧੂ)  
ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ।
3. **ਸ਼ਬਦ-ਬਣਤਰ ਅਤੇ ਸ਼ਬਦ ਰਚਨਾ** : ਪਰਿਭਾਸ਼ਾ, ਮੁੱਢਲੇ ਸੰਕਲਪ
4. **ਸ਼ਬਦ ਸ਼੍ਰੇਣੀਆਂ**
5. **ਪੈਰ੍ਹਾ ਰਚਨਾ**
6. **ਪੈਰ੍ਹਾ ਪੜ੍ਹ ਕੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ**
7. **ਮੁਹਾਵਰੇ ਅਤੇ ਅਖਾਣ**

**ਅੰਕ-ਵੰਡ ਅਤੇ ਪਰੀਖਿਅਕ ਲਈ ਹਦਾਇਤਾਂ:**

1. ਕਿਸੇ ਨਿਬੰਧ ਦਾ ਸਾਰ ਜਾਂ ਉਸਦਾ ਵਿਸ਼ਾ ਵਸਤੂ (ਦੋ ਵਿਚੋਂ ਇਕ) । 10 ਅੰਕ
2. **ਆਤਮ ਅਨਾਤਮ** : ਸਾਰ, ਵਿਸ਼ਾ ਵਸਤੂ, ਪਾਤਰ ਚਿਤਰਣ, ਸਾਹਿਤ ਨੂੰ ਦੇਣ 10 ਅੰਕ
- 3-4. 3-4 ਨੰਬਰ ਉੱਤੇ ਦਿੱਤੀ ਵਿਆਕਰਣ ਦੇ ਆਧਾਰ ਤੇ ਵਰਣਨਾਤਮਕ ਪ੍ਰਸ਼ਨ। 10 ਅੰਕ
5. ਪੈਰ੍ਹਾ ਰਚਨਾ : ਤਿੰਨ ਵਿਸ਼ਿਆਂ ਵਿਚੋਂ ਕਿਸੇ ਇਕ ਉੱਤੇ ਪੈਰ੍ਹਾ ਲਿਖਣ ਲਈ 05 ਅੰਕ  
ਕਿਹਾ ਜਾਵੇ ।
6. ਪੈਰ੍ਹਾ ਦੇ ਕੇ ਉਸ ਬਾਰੇ ਪੰਜ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ 05 ਅੰਕ
7. ਨੰਬਰ 7 ਵਿਚ ਅੱਠ ਅਖਾਣ ਅਤੇ ਅੱਠ ਮੁਹਾਵਰੇ ਪੁੱਛੇ ਜਾਣਗੇ, ਜਿਨ੍ਹਾਂ ਵਿਚੋਂ  
ਵਿਦਿਆਰਥੀ ਨੇ ਪੰਜ-ਪੰਜ ਨੂੰ ਵਾਕਾਂ ਵਿਚ ਵਰਤ ਕੇ ਅਰਥ ਸਪੱਸ਼ਟ ਕਰਨੇ ਹੋਣਗੇ।

5+ 5=10 ਅੰਕ

**Paper-VI: ਮੁੱਢਲੀ ਪੰਜਾਬੀ**  
(In lieu of Punjabi Compulsory)

ਸਮਾਂ : ਤਿੰਨ ਘੰਟੇ	ਪਾਠ-ਕ੍ਰਮ	ਕੁਲ ਅੰਕ : 50
1.	ਪੰਜਾਬੀ ਸ਼ਬਦ-ਬਣਤਰ ਸੰਯੁਕਤ ਅਤੇ ਮਿਸ਼ਰਤ ਸ਼ਬਦ ਨਿੱਤ ਵਰਤੋਂ ਦੀ ਪੰਜਾਬੀ ਸ਼ਬਦਾਵਲੀ	20 ਅੰਕ
2.	ਪੰਜਾਬੀ ਸ਼ਬਦ ਸ਼੍ਰੇਣੀਆਂ ਦੀ ਪਛਾਣ ਅਤੇ ਵਰਤੋਂ: ਨਾਂਵ, ਪੜਨਾਂਵ ਵਿਸ਼ੇਸ਼ਣ, ਕਿਰਿਆ, ਕਿਰਿਆ ਵਿਸ਼ੇਸ਼ਣ	15 ਅੰਕ
3.	ਪੰਜਾਬੀ ਵਾਕ-ਬਣਤਰ ਸਾਧਾਰਨ ਵਾਕ : ਕਿਸਮਾਂ ਸੰਯੁਕਤ ਵਾਕ : ਕਿਸਮਾਂ ਮਿਸ਼ਰਤ ਵਾਕ : ਕਿਸਮਾਂ ਪੰਜਾਬੀ ਵਾਕਾਂ ਦੀ ਵਰਤੋਂ ਦੇ ਵਿਭਿੰਨ ਸਮਾਜਿਕ ਪ੍ਰਸੰਗ	15 ਅੰਕ

**ਯੂਨਿਟ ਅਤੇ ਥੀਮ**

1. ਪੰਜਾਬੀ ਸ਼ਬਦ ਬਣਤਰ: ਸੰਯੁਕਤ ਸ਼ਬਦ ; ਸਮਾਸੀ ਸ਼ਬਦ (ਜਿਵੇਂ ਲੋਕ ਸਭਾ) ; ਦੋਹਰੇ ਸ਼ਬਦ/ਦੁਹਰੁਕਤੀ (ਜਿਵੇਂ ਧੂੜ ਧਾੜ/ਭਰ ਭਰ), ਮਿਸ਼ਰਤ ਸ਼ਬਦਾਂ ਦੀ ਬਣਤਰ/ਸਿਰਜਨਾ; ਅਗੇਤਰਾਂ ਰਾਹੀਂ (ਜਿਵੇਂ ਉਪ-ਭਾਸ਼ਾ), ਪਿਛੇਤਰਾਂ ਰਾਹੀਂ (ਜਿਵੇਂ ਰੰਗਲਾ), ਪੰਜਾਬੀ ਸ਼ਬਦ ਰਚਨਾ; ਪੜਨਾਵੀਂ ਰੂਪ, ਕਿਰਿਆ/ਸਹਾਇਕ ਕਿਰਿਆ ਦੇ ਰੂਪ ; ਨਿੱਤ ਵਰਤੋਂ ਦੀ ਪੰਜਾਬੀ ਸ਼ਬਦਾਵਲੀ ; ਰੁੱਤਾਂ, ਮਹੀਨਿਆਂ, ਮੌਸਮਾਂ, ਗਿਣਤੀ ਨਾਲ ਸਬੰਧਿਤ।
2. ਦੂਸਰੇ ਯੂਨਿਟ ਵਿੱਚ ਸ਼ਬਦ-ਸ਼੍ਰੇਣੀਆਂ ਦੀ ਪਛਾਣ ਅਤੇ ਵਰਤੋਂ ਨਾਲ ਸਬੰਧਿਤ 5-5 ਅੰਕਾਂ ਦੇ ਚਾਰ ਵਿਹਾਰਕ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਇੱਕ-ਇੱਕ ਜਾਂ ਦੋ-ਦੋ ਅੰਕਾਂ ਦੇ ਛੋਟੇ ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ।

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3. ਪੰਜਾਬੀ ਵਾਕ-ਬਣਤਰ : ਕਰਤਾ ਕਰਮ ਕਿਰਿਆ; ਸਾਧਾਰਨ ਵਾਕ, ਬਿਆਨੀਆ, ਪ੍ਰਸ਼ਨਵਾਚਕ, ਆਗਿਆਵਾਚਕ; ਸੰਯੁਕਤ ਅਤੇ ਮਿਸ਼ਰਤ ਵਾਕਾਂ ਦੀਆਂ ਕਿਸਮਾਂ ; ਸੁਤੰਤਰ ਅਤੇ ਅਧੀਨ ਉਪਵਾਕ ; ਸਮਾਨ (ਤੇ/ਅਤੇ) ਅਤੇ ਅਧੀਨ (ਜੋ/ਕਿ) ਯੋਜਕਾਂ ਦੀ ਵਰਤੋਂ; ਪੰਜਾਬੀ ਵਾਕਾਂ ਦੀ ਵਰਤੋਂ ਦੇ ਵਿਭਿੰਨ ਸਮਾਜਕ/ਸਭਿਆਚਾਰਕ ਪ੍ਰਸੰਗ ; ਘਰ ਵਿਚ, ਬਾਜ਼ਾਰ ਵਿਚ, ਮੇਲੇ ਵਿਚ, ਸ਼ੋਪਿੰਗ ਮਾਲ/ਸਿਨੇਮੇ ਵਿਚ, ਵਿਆਹ ਵਿਚ, ਧਾਰਮਿਕ ਸਥਾਨਾਂ ਵਿਚ, ਦੋਸਤਾਂ ਨਾਲ ਆਦਿ।

**ਅੰਕ-ਵੰਡ ਅਤੇ ਪਰੀਖਿਅਕ ਲਈ ਹਦਾਇਤਾਂ**

1. ਪਹਿਲੇ ਯੂਨਿਟ ਵਿੱਚੋਂ ਪੰਜਾਬੀ ਸ਼ਬਦ ਬਣਤਰ ਅਤੇ ਸ਼ਬਦ ਰਚਨਾ ਨਾਲ ਸਬੰਧਿਤ 5-5 ਅੰਕਾਂ ਦੇ ਤਿੰਨ ਵਿਹਾਰਕ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਇਕ-ਇਕ ਜਾਂ ਦੋ-ਦੋ ਅੰਕਾਂ ਦੇ ਛੋਟੇ ਪ੍ਰਸ਼ਨਾਂ ਵਿਚ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ।
2. ਨਿੱਤ ਵਰਤੋਂ ਦੀ ਸ਼ਬਦਾਵਲੀ ਨਾਲ ਸਬੰਧਿਤ ਇਕ-ਇਕ ਅੰਕ ਦੇ ਪੰਜ (ਆਬਜੈਕਟਿਵ) ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
3. ਦੂਸਰੇ ਯੂਨਿਟ ਵਿੱਚ ਸ਼ਬਦ ਸ਼੍ਰੇਣੀਆਂ ਦੀ ਪਛਾਣ ਅਤੇ ਵਰਤੋਂ ਨਾਲ ਸਬੰਧਿਤ 5-5 ਅੰਕਾਂ ਦੇ ਚਾਰ ਵਿਹਾਰਕ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਇੱਕ-ਇੱਕ ਦੋ-ਦੋ ਅੰਕਾਂ ਦੇ ਛੋਟੇ ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ।
4. ਤੀਜੇ ਯੂਨਿਟ ਵਿੱਚ ਪੰਜਾਬੀ ਵਾਕ-ਬਣਤਰ ਨਾਲ ਸਬੰਧਿਤ 5-5 ਅੰਕਾਂ ਦੇ ਦੋ ਵਿਹਾਰਕ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਅੰਕਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਇਕ-ਇਕ ਜਾਂ ਦੋ-ਦੋ ਅੰਕਾਂ ਦੇ ਛੋਟੇ ਪ੍ਰਸ਼ਨਾਂ ਵਿਚ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ।
5. ਪੰਜਾਬੀ ਵਾਕਾਂ ਦੀ ਵਿਹਾਰਕ ਵਰਤੋਂ ਨਾਲ ਸਬੰਧਿਤ 5 ਅੰਕਾਂ ਦਾ ਇਕ ਪ੍ਰਸ਼ਨ ਪੁੱਛਿਆ ਜਾਵੇਗਾ ਜਿਸ ਵਿਚ ਵਿਦਿਆਰਥੀ ਨੂੰ ਕਿਸੇ ਸਮਾਜਕ/ਸਭਿਆਚਾਰਕ ਪ੍ਰਸੰਗ ਵਿਚ ਵਰਤੇ ਜਾਂਦੇ ਪੰਜ ਵਾਕ ਲਿਖਣ ਲਈ ਕਿਹਾ ਜਾਵੇਗਾ।
6. ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਭਾਸ਼ਾ ਸਰਲ ਅਤੇ ਸਪਸ਼ਟ ਰੱਖੀ ਜਾਵੇ।

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – III

**PAPER – I: SOUND RECORDING AND MIXING (Theory)**

**Time:** 3 Hrs

**Theory:** 50 Marks

**Instructions for Paper Setter:**

**Section A:** 7 Very short answer type questions should be set out of which 5 have to be attempted of 2 marks each. (2x5 = 10)

**Section B:** 7 long answer type questions should be set out of which 4 have to be attempted of 10 marks each. (10x4 = 40)

**Section A** : 10 Marks

**Section B** : 40 Marks

**Total** : 50 Marks

**Note:** Practical Examiner can ask questions from the theory portion also.

**UNIT – I**

Advanced Sound Editing Techniques  
Balance output levels and pan  
Superimposing Sounds

**UNIT–II**

Types and characteristics of Microphones  
Microphone Inputs  
Mono and Stereo Compatibility  
Microphone Choice and Placement  
Audio Cables and Connectors

**UNIT–III**

Introduction to Studio Equipment  
Production Mixing and Mastering  
Aesthetics and Techniques of multi-track  
Working with various Sound Effects  
Compressing Techniques

**Suggested Readings:**

- Sound Check: The Basics of Sound and Sound Systems by Tony Moscal
- The Audio Expert: Everything You Need to Know About Audio by Ethan Winer
- Surround Sound by Tomlinson Holman
- Eargle's The Microphone Book: From Mono to Stereo to Surround – A Guide to Microphone Design and Application by Ray A. Rayburn
- Professional Microphone Techniques (Mix Pro Audio) by David Miles–Huber, Philip Williams
- Stereo Microphone Techniques by Bruce Bartlett

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – III

**SOUND RECORDING AND MIXING (Practical)**

**Time:** 3 Hrs

**Practical:** 50 Marks

**Note:** Practical Examiner can ask questions from the theory portion also.

**UNIT – I**

Advanced Sound Editing Techniques  
Balance output levels and pan  
Superimposing Sounds

**UNIT–II**

Types and characteristics of Microphones  
Microphone Inputs  
Mono and Stereo Compatibility  
Microphone Choice and Placement  
Audio Cables and Connectors

**UNIT–III**

Introduction to Studio Equipment  
Production Mixing and Mastering  
Aesthetics and Techniques of multi-track  
Working with various Sound Effects  
Compressing Techniques

**PAPER – II: BASICS OF MUSICAL COMPOSITION (Theory)**

**Time: 3 Hrs**

**Theory: 50 Marks**

**Instructions for Paper Setter:**

**Section A:** 7 Very short answer type questions should be set out of which 5 have to be attempted of 2 marks each. (2x5 = 10)

**Section B:** 7 long answer type questions should be set out of which 4 have to be attempted of 10 marks each. (10x4 = 40)

**Section A** : 10 Marks

**Section B** : 40 Marks

**Total** : 50 Marks

**Note:** Practical Examiner can ask questions from the theory portion also.

**UNIT – I**

**(Vocal & Instrumental Musical Composition)**

Training of Voice Culture (Kanth Sadhana)

Musical Composition according to themes of Lyrics/Moods (Romantic, Sad, Cinematic, Devotional and other various forms)

Knowledge of four types of Instruments

Use of Percussion Instruments with various Compositions

Use of Manual and Electronic Non–Percussion Instruments

**UNIT – II**

**(Western Composition)**

Training of Voice through Sound Equipment (Microphone)

Western Musical Composition of variety of Lyrics, Moods and Beats

Knowledge of Western Percussion Instrument

Knowledge of Tone Quality of Non– Percussion Instruments

**UNIT – III**

**(Music Arrangement)**

Basic Knowledge of Western Instrument Tone through Microphone

Use of Western Instruments in Indian Musical Composition

Pronunciation of Words and Clarity of Voice in different Languages

Knowledge of stress of Words and Musical Notes of sound according to Mood

Introductory Music of Various Compositions and their Interlude

Backing of Musical Composition and Contour Music

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – III

**Suggested Readings:**

- Raag Parichay, Part I, II, III, IV – Shri Harishchander Srivastava
- Sangeet Vishard Sangeet Karayalya, Hathras
- Sangeet Subodh by Dr. Davinder Kaur
- The Art of Recording by William Moylan
- Creative Music Composition: The Young Composer's Voice by Margaret Lucy Wilkins
- Teaching Music Through Composition: A Curriculum Using Technology by Barbara Freedman
- Musical Creativity: Strategies and Tools in Composition and Improvisation by Guerino Mazzola, Joomi Park, Florian Thalmann
- Indian Music in Performance: A Practical Introduction by Neil Sorrell, Ram Narayan

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – III

**BASICS OF MUSICAL COMPOSITION**

**(Practical)**

**Time:** 3 Hrs

**Practical:** 50 Marks

**Note:** Practical Examiner can ask questions from the theory portion also.

**UNIT – I**

**(Vocal & Instrumental Musical Composition)**

Training of Voice Culture (Kanth Sadhana)

Musical Composition according to themes of Lyrics/Moods (Romantic, Sad, Cinematic, Devotional and other various forms)

Knowledge of four types of Instruments

Use of Percussion Instruments with various Compositions

Use of Manual and Electronic Non–Percussion Instruments

**UNIT – II**

**(Western Composition)**

Training of Voice through Sound Equipment (Microphone)

Western Musical Composition of variety of Lyrics, Moods and Beats

Knowledge of Western Percussion Instrument

Knowledge of Tone Quality of Non– Percussion Instruments

**UNIT – III**

**(Music Arrangement)**

Basic Knowledge of Western Instrument Tone through Microphone

Use of Western Instruments in Indian Musical Composition

Pronunciation of Words and Clarity of Voice in different Languages

Knowledge of stress of Words and Musical Notes of sound according to Mood

Introductory Music of Various Compositions and their Interlude

Backing of Musical Composition and Contour Music

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – III

**PAPER – III: AUDIO PRODUCTION LAB. – III**

**(Practical)**

**Time:** 3 Hrs.

**Practical:** 50 Marks

**UNIT-I**

Multitrack Arrangement  
The Multi track View  
Wave Display  
Recording in Edit view

**UNIT-II**

Tracks Control  
Stereo Enhancement  
Additional Effects

**UNIT-III**

Graphic Equalizer  
Effects Channels  
Recording Device, Monitor Record Level  
MIDI Recording

**Software (s):** Sound Forge, Audition and Cubase

**Suggested Readings:**

- Mixing & Mastering with Cubase by Matthew Loel T. Hepworth
- The Power in Cubase: Tracking Audio, MIDI, and Virtual Instruments by Matthew Loel T. Hepworth
- Alfred's Teach Yourself Cubase by Alfred Publishing Co., Inc
- Adobe Audition Classroom in a Book by Adobe Creative Team
- The Focal Easy Guide to Adobe Audition by Antony Brown
  
- Sound Forge Power: The Official Guide by Brian Smithers and Premier Development
- Understanding Digital Music and Sound Forge by D. Sen
- Sound Forge in Simple Steps by Kogent Learning Solutions

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BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – III

**PAPER – IV: PERSONALITY DEVELOPMENT – I  
(Practical)**

**Time:** 3 Hrs.

**Practical:** 50 Marks

**UNIT-I**

Meaning and Definition of Personality  
Aspects of Personality (Physical, Intellectual, Emotional and Social)  
Personality Development: Need and Importance  
Indicators of a Developed Personality

**UNIT-II**

Positive Attitude: Concept, traits of Positive thinking and high achievers  
Techniques and Strategies for positive thinking  
Indicators of Positive Attitude  
Motivation: Techniques for self-motivation

**UNIT-III**

Goals Setting and Time Management  
Goals: Meaning and Types  
Time Management: Meaning and Concept, importance  
Strategies for Time Management, identifying and avoiding time-wasters

**Suggested Readings:**

- Personality Development By John Aurther
- Social and Personality Development: An Advanced Textbook edited by Michael E. Lamb, Marc H. Bornstein
- Personality Development: A Psychoanalytic Perspective edited by Debbie Hindle, Marta Vaciago Smith
- Personality Development By Hurlock Mn
- You Can Win by Shiv Khera, McMillan Publishers
- The Ultimate Power of Positive Thinking by Stephen Richards
- Personality Development by Rajan K. Mishra, Richa Publication

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BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – III

**PAPER – V: PRODUCTION MANAGEMENT**  
(Theory)

**Time:** 3 Hrs

**Theory:** 50 Marks

**Instructions for Paper Setter:**

**Section A:** 7 Very short answer type questions should be set out of which 5 have to be attempted of 2 marks each. (2x5 = 10)

**Section B:** 7 long answer type questions should be set out of which 4 have to be attempted of 10 marks each. (10x4 = 40)

**Section A** : 10 Marks

**Section B** : 40 Marks

**Total** : 50 Marks

**Note:** Practical Examiner can ask questions from the theory portion also.

**UNIT-I**

Pre-Production and Development Phase  
Script, Screenplay, Adaptations, Story Boarding  
Common Crew Members, Set Design

**UNIT-II**

Production Phase  
Role and responsibilities of above the line Production Crew  
Role of Directors and Actors  
Shooting Schedule

**UNIT-III**

Post-Production and Manipulation  
Audio and Video Editing  
Visual Effects, Sound Effects, Dubbing  
Censorship, Distribution

**Suggested Readings:**

- TV Production by Gerald Millerson, Focal Press
- Film Production by Steven Bernstein, Focal Press
- Fundamentals of Television Production by Donald, Ralph & Span, Blackwell Publishing
- Film Production Management by Bastian Cleve, Focal Press
- Television Production Handbook by Zettl, Herbert, Thomson Wadsworth
- Art and Production by N.N Sarkar
- Techniques of T.V Production by Bretz Rudy, McGraw-Hill Book Co.
- Television Karyakrama Nirman Prakriya (Hindi) by Ashok Jailkhani and Manaraj Shah, Ranth Academy, New Delhi

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BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – III

**PRODUCTION MANAGEMENT**  
**(Practical)**

**Time:** 3 Hrs

**Marks:** 50

**Note:** Practical Examiner can ask questions from the theory portion also.

**UNIT-I**

Pre-Production and Development Phase  
Script, Screenplay, Adaptations, Story Boarding  
Common Crew Members, Set Design

**UNIT-II**

Production Phase  
Role and responsibilities of above the line Production Crew  
Role of Directors and Actors  
Shooting Schedule

**UNIT-III**

Post-Production and Manipulation  
Audio and Video Editing  
Visual Effects, Sound Effects, Dubbing  
Censorship, Distribution

**PAPER – VI: ENVIRONMENTAL STUDIES**

**Theory Lectures: 1.5 Hours/ Week**  
**Time of Examination: 3 Hours**

**Max. Marks: 50**

**Section A (15 Marks):** It will consist of five short answer type questions. Candidates will be required to attempt three questions, each question carrying five marks. Answer to any of the questions should not exceed two pages.

**Section B (20 Marks):** It will consist of four essay type questions. Candidates will be required to attempt two questions, each question carrying ten marks. Answer to any of the questions should not exceed four pages.

**Section C (15 Marks):** It will consist of two questions. Candidate will be required to attempt one question only. Answer to the question should not exceed 5 pages.

**1. The multidisciplinary nature of environmental studies:**

- Definition, scope & its importance.
- Need for public awareness.

**2. Natural resources:**

- Natural resources and associated problems:
  - a) Forest Resources:** Use of over exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.
  - b) Water Resources:** Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
  - c) Mineral Resources:** Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
  - d) Food Resources:** World food problems, change caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problem, salinity, case studies.
  - e) Energy Resources:** Growing of energy needs, renewable and non-renewable energy resources, use of alternate energy sources, case studies.
  - f) Land Resources:** Land as a resource, land degradation, soil erosion and desertification.
    - Role of an individual in conservation of natural resources.
    - Equitable use of resources for sustainable lifestyles.

**3. Ecosystem:**

- Concept of an ecosystem.
- Structure and function of an ecosystem.
- Producers, consumers and decomposers.
- Energy flow in the ecosystem.
- Ecological succession.
- Food chains, food webs and ecological pyramids.

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – III

- Introduction, types, characteristic features, structure and function of the following ecosystems:
  - a. Forest ecosystem
  - b. Grassland ecosystem
  - c. Desert ecosystem
  - d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

#### 4. Social Issues and Environment:

- From unsustainable to sustainable development.
- Urban problems related to energy.
- Water conservation, rain water harvesting, watershed management.
- Resettlement and rehabilitation of people; its problems and concerns. Case studies.
- Environmental ethics: Issues and possible solutions.
- Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies.
- Wasteland reclamation.
- Consumerism and waste products.
- Environmental Protection Act:
  - Air (prevention and Control of Pollution) Act.
  - Water (prevention and Control of Pollution) Act.
  - Wildlife Protection Act.
  - Forest Conservation Act.
- Issues involved in enforcement of environmental legislation.
- Public awareness.

#### References/Books:

1. Agarwal, K. C. 2001. Environmental Biology, Nidhi Publications Ltd. Bikaner.
2. Bharucha, E. 2005. Textbook of Environmental Studies, Universities Press, Hyderabad.
3. Down to Earth, Centre for Science and Environment, New Delhi.
4. Jadhav, H. & Bhosale, V. M. 1995. Environmental Protection and Laws. Himalaya Pub.
5. Joseph, K. and Nagendran, R. 2004. Essentials of Environmental Studies, Pearson Education (Singapore) Pte. Ltd., Delhi.
6. Kaushik, A. & Kaushik, C. P. 2004. Perspective in Environmental Studies, New Age International (P) Ltd, New Delhi.
7. Miller, T. G. Jr. 2000. Environmental Science, Wadsworth Publishing Co.
8. Sharma, P. D. 2005. Ecology and Environment, Rastogi Publications, Meerut.
9. Booklet on Safe Driving. Sukhmani Society (Suvidha Centre), District Court Complex, Amritsar
10. Kanta, S., 2012. Essentials of Environmental Studies, ABS Publications, Jalandhar.

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BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – IV

**PAPER – I: SOUND STUDIO MANAGEMENT**

**(Theory)**

**Time:** 3 Hrs

**Theory:** 50 Marks

**Instructions for Paper Setter:**

**Section A:** 7 Very short answer type questions should be set out of which 5 have to be attempted of 2 marks each. (2x5 = 10)

**Section B:** 7 long answer type questions should be set out of which 4 have to be attempted of 10 marks each. (10x4 = 40)

**Section A** : 10 Marks

**Section B** : 40 Marks

**Total** : 50 Marks

**UNIT – I**

Sound Studio Design and Setup  
Fundamentals of Studio Design and Layout  
Control Room, Studio (Performance), Booth (Vocal)  
Studio Acoustic and Soundproofing  
Diffusers and Absorbers  
Sound Lock

**UNIT – II**

Role of Audio Mixer, MIDI Controller  
Professional Sound Card, Sound Monitors, Amplifier, Headphones  
Microphones: types and features  
Accessories: Audio cables and connectors  
Connecting Electronic Musical Instruments

**UNIT – III**

Set up for Recording or Mixing space for optimal Acoustic balance  
Appropriate Recording and Listening levels  
Session Management: Media Transfer: Record to digital media  
Troubleshoot a Recording System/Setup

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BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – IV

**SOUND STUDIO MANAGEMENT  
(Practical)**

**Time:** 3 Hrs.

**Practical:** 50 Marks

Practical Study of Sound Studio Design and Layout

Understanding the role of Studio Acoustic, Diffusers and Absorbers

Understanding the various Digital Audio Mixer Settings and Presets

Documenting a recording session or project (track lists and proposals)

**Suggested Readings:**

- RA, the Book: The Recording Architecture Book of Studio Design by Black Box Press
- Recording Studio Design By Philip Newell
- Handbook of Sound Studio Construction: Rooms for Recording and Listening By Ken Pohlmann
- Sound Studio: Audio techniques for Radio, Television, Film and Recording By Alec Nisbett
- Chasing Sound: Technology, Culture, and the Art of Studio Recording from Edison to LP  
By Susan Schmidt Horning

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – IV

**PAPER – II: ELECTRONIC MUSIC PRODUCTION**  
**(Theory)**

**Time: 3 Hrs**

**Theory: 50 Marks**

**Instructions for Paper Setter:**

**Section A:** 7 Very short answer type questions should be set out of which 5 have to be attempted of 2 marks each. (2x5 = 10)

**Section B:** 7 long answer type questions should be set out of which 4 have to be attempted of 10 marks each. (10x4 = 40)

**Section A** : 10 Marks

**Section B** : 40 Marks

**Total** : 50 Marks

**Note:** Practical Examiner can ask questions from the theory portion also.

**UNIT – I**

MIDI Recording

Input MIDI data using physical controllers

Synchronize MIDI tracks with recorded audio tracks

**UNIT – II**

Working with Loops

Creating and Editing Loops

Understanding Tempo/BPM

Mixing and Creating Tracks with Loops

Recording Loops

**UNIT–III**

Digital Music Sequencing

Generating Electronic Music

Software Synthesizers

Virtual Studio Technology

VST Plugins: VST instruments, VST effects, VST MIDI effects

Composing, Arranging, Editing, Mixing, Rendering the Music

**Software (s):** Cubase/Nuendo/FL Studio

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BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – IV

**Suggested Readings:**

- FL Studio Power!: The Comprehensive Guide by Stephen Pease
- Fruity Loops: The Ultimate Electronic Virtual Music Studio by Jim Aikin
- The Fruity Loop's Beginner's Guide: The Absolute Basics
- Fruity Loops Bible
- Mixing & Mastering with Cubase by Matthew Loel T. Hepworth
- Get Creative with Cubase VST by Gemmell (PC Publishing)
- The Power in Cubase: Tracking Audio, MIDI, and Virtual Instruments by Matthew Loel T. Hepworth
- Alfred's Teach Yourself Cubase by Alfred Publishing Co., Inc
- Nuendo 5 Power!: The Comprehensive Guide by Ashley Shepherd

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – IV

**ELECTRONIC MUSIC PRODUCTION**

**(Practical)**

**Time:** 3 Hrs

**Practical:** 50 Marks

**Note:** Practical Examiner can ask questions from the theory portion also.

**UNIT – I**

MIDI Recording

Input MIDI data using physical controllers

Synchronize MIDI tracks with recorded audio tracks

**UNIT – II**

Working with Loops

Creating and Editing Loops

Understanding Tempo/BPM

Mixing and Creating Tracks with Loops

Recording Loops

**UNIT–III**

Digital Music Sequencing

Generating Electronic Music

Software Synthesizers

Virtual Studio Technology

VST Plugins: VST instruments, VST effects, VST MIDI effects

Composing, Arranging, Editing, Mixing, Rendering the Music

**Software (s):** Cubase/Nuendo/FL Studio

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – IV

**PAPER – III: AUDIO PRODUCTION AND MULTIMEDIA  
(Practical)**

**Time:** 3 Hrs.

**Practical:** 100 Marks

**UNIT – I**

Study of audio production techniques for Radio, Video, Film, Theatre and Multimedia.  
Mixing criteria for Broadcast and Visual Productions

**UNIT – II**

Media production  
Audio for Internet  
Advanced digital audio workstation techniques

**UNIT–III**

Elements of Sound Track  
Narration, Music, Silence, Dialogue, Ambience, Background score and Foley  
Sound effects, Sound Design, Sync Sound, ADR

**Software (s):** Cubase/Nuendo/Sound Forge

**Suggested Readings:**

- Sound and Recording sixth edition by Francis Rumsey and Tim McCormick.\
- Sound Engineering Explained second edition by Michael Talbot–Smith
- Sound for film and Television third edition by Tomlinson Holman
- Master Handbook of Audio Production by Jerry C. Whitaker
- Producing Great Sound for Film and Video third edition by Jay Rose
- Sound and Music for the theatre by Dena Kaye and James Lebrecht
- Audio Production and Post– Production by Woody wood hal
- The Art of Recording by William Moylan
- Nuendo 5 Power!: The Comprehensive Guide by Ashley Shepherd
- Alfred's Teach Yourself Cubase by Alfred Publishing Co., Inc

BACHELOR OF VOCATION (B.Voc.)  
(SOUND TECHNOLOGY) SEMESTER – IV

**PAPER – IV: PERSONALITY DEVELOPMENT – II**  
**(Practical)**

**Time:** 3 Hrs.

**Practical:** 50 Marks

**UNIT-I**

Soft Skills: Meaning and Importance

Concepts: Work and Professional Ethics,

Self-Presentation, Self Confidence, Problem Solving Skills, Stress and Conflict Management

Team Spirit: Leadership Skills, Synergy and Team Building

**UNIT-II**

Placement Preparations: Group Discussions, Rules for Group Discussion

Personal Interview: Mock Interview and its Rules

Do's and Dont's: Dressing Sense, Strategies before and during the interview

Overcoming shyness, nervousness and fear

**UNIT-III**

Grooming: meaning and concept, various dimensions

Role of manners and etiquette in grooming

Strategies/Tips for grooming into an all-round groomed individual

Profile and Biography of: Abraham Lincoln, Dr. APJ Abdul Kalam, Amitabh Bachchan, Indira Nooyi

**Suggested Readings:**

- Personality Development By John Aurther
- Social and Personality Development: An Advanced Textbook edited by Michael E. Lamb, Marc H. Bornstein
- Personality Development: A Psychoanalytic Perspective edited by Debbie Hindle, Marta Vaciago Smith
- Personality Development By Hurlock Mn
- You Can Win by Shiv Khera, McMillan Publishers
- The Ultimate Power of Positive Thinking by Stephen Richards
- Personality Development by Rajan K. Mishra, Richa Publication

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(SOUND TECHNOLOGY) SEMESTER – IV

**PAPER – V: PRODUCTION DESIGN WORKSHOP**  
**(Theory)**

**Time:** 3 Hrs

**Theory:** 50 Marks

**Instructions for Paper Setter:**

**Section A:** 7 Very short answer type questions should be set out of which 5 have to be attempted of 2 marks each. (2x5 = 10)

**Section B:** 7 long answer type questions should be set out of which 4 have to be attempted of 10 marks each. (10x4 = 40)

**Section A** : 10 Marks

**Section B** : 40 Marks

**Total** : 50 Marks

**UNIT-I**

Basic Camera Operations

Camera Accessories, Lenses and its types

Shot Composition, Camera Movements, Camera Shots and Camera Angles

**UNIT-II**

Basic Production Techniques

Indoor and Outdoor Shooting

Different TV and Film Formats

**UNIT-III**

Graphic Designing and Editing

Working with Vectors and Raster Graphics

Video Editing: NLE Software Interface and Basic Operations

Introduction to Animation and Types

**Software(s):** Basic Knowledge of Adobe Photoshop, Corel Draw, Adobe Premiere Pro, Adobe Flash and Autodesk 3D Studio Max

**Suggested Readings:**

- Production for Graphic Design, Fourth edition by Alan pipes
- The Adobe Photoshop CS5 Book for Digital Photographers (Voices That Matter) by Scot Kelby
- TV Production: Gerald Milerson, Focal Press
- Film Production: Steven Bernstein, Focal Press
- Creating Special Effects for TV and Video: Barnard Willkie
- Single Camera Video Production: R.B. Musburger
- Television Production Handbook: Zettl, Herbert, Published, Thomson Wadsworth
- Adobe Flash Professional Classroom in a Book by Pearson
- Adobe Premiere Pro Classroom in a Book by Pearson
- Introducing 3Ds Max: 3D For Beginners by Wiley India Pvt Ltd

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**PAPER – VI: ENVIRONMENTAL STUDIES**

**Theory Lectures: 1.5 Hours/ Week**

**Max. Marks: 50**

**Time of Examination: 3 Hours**

**Section A (15 Marks):** It will consist of five short answer type questions. Candidates will be required to attempt three questions, each question carrying five marks. Answer to any of the questions should not exceed two pages.

**Section B (20 Marks):** It will consist of four essay type questions. Candidates will be required to attempt two questions, each question carrying ten marks. Answer to any of the questions should not exceed four pages.

**Section C (15 Marks):** It will consist of two questions. Candidate will be required to attempt one question only. Answer to the question should not exceed 5 pages.

**1. Biodiversity and its Conservation:**

- Definition: Genetic, species and ecosystem diversity.
- Biogeographical classification of India.
- Value of Biodiversity: Consumptive use; productive use, social, ethical, aesthetic and option values.
- Biodiversity of global, National and local levels.
- India as mega-diversity nation.
- Hot-spots of biodiversity.
- Threats to Biodiversity: Habitat loss, poaching of wild life, man wildlife conflicts.
- Endangered and endemic species of India.
- Conservation of Biodiversity: In situ and Ex-situ conservation of biodiversity.

**2. Environmental Pollution:**

- Definition, causes, effects and control measures of:
  - a) Air Pollution
  - b) Water Pollution
  - c) Soil Pollution
  - d) Marine Pollution
  - e) Noise Pollution
  - f) Thermal Pollution
  - g) Nuclear Hazards
  - h) Electronic Waste
- Solid Waste Management: Causes, effects and control measures of urban and industrial wastes.
- Role of an individual in prevention of pollution.
- Pollution case studies.
- Disaster Management: Floods, Earthquake, Cyclone and Landslides.

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(SOUND TECHNOLOGY) SEMESTER – IV

### 3. Human population and the environment

- Population growth, variation among nations.
- Population explosion-Family welfare programme.
- Environment and human health.
- Human rights.
- Value education.
- HIV/AIDS.
- Women and child welfare.
- Role of information technology in environment and human health.
- Case studies.
- Road Safety Rules & Regulations: Use of Safety Devices while Driving, Do's and Don'ts while Driving, Role of Citizens or Public Participation, Responsibilities of Public under Motor Vehicle Act, 1988, General Traffic Signs.
- Accident & First Aid: First Aid to Road Accident Victims, Calling Patrolling Police & Ambulance.

### 4. Field Visits:

- Visit to a local area to document environmental assets–river/forest/grassland/hill/mountain.
- Visit to a local polluted site–Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds.
- Study of simple ecosystems–pond, river, hill slopes etc.

**Note:** In this section the students will be required to visit and write on the environment of an area/ ecosystem/village industry/disaster/mine/dam/agriculture field/waste management/hospital etc. with its salient features, limitations, their implications and suggestion for improvement.

### References/Books:

1. Agarwal, K. C. 2001. Environmental Biology, Nidhi Publications Ltd. Bikaner.
2. Bharucha, E. 2005. Textbook of Environmental Studies, Universities Press, Hyderabad.
3. Down to Earth, Centre for Science and Environment, New Delhi.
4. Jadhav, H. & Bhosale, V. M. 1995. Environmental Protection and Laws. Himalaya Pub.
5. Joseph, K. and Nagendran, R. 2004. Essentials of Environmental Studies, Pearson Education (Singapore) Pte. Ltd., Delhi.
6. Kaushik, A. & Kaushik, C. P. 2004. Perspective in Environmental Studies, New Age International (P) Ltd, New Delhi.
7. Miller, T. G. Jr. 2000. Environmental Science, Wadsworth Publishing Co.
8. Sharma, P. D. 2005. Ecology and Environment, Rastogi Publications, Meerut.
9. Booklet on Safe Driving. Sukhmani Society (Suvidha Centre), District Court Complex, Amritsar
10. Kanta, S., 2012. Essentials of Environmental Studies, ABS Publications, Jalandhar.