

## 6. ADDITIONAL SUBJECTS

### (A) MUSIC

Any one of the following can be offered: (Hindustani or Carnatic)

- |  |  |
|--|--|
| 1. Carnatic Music-Vocal<br>or<br>2. Carnatic Music-Melodic Instruments<br>or<br>3. Carnatic Music-Percussion Instruments | 4. Hindustani Music-Vocal<br>or<br>5. Hindustani Music Melodic Instruments<br>or<br>6. Hindustani Music Percussion Instruments |
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#### (i) CARNATIC MUSIC VOCAL

**THE WEIGHTAGE FOR FORMATIVE ASSESSMENT (F.A.) AND SUMMATIVE ASSESSMENT (S.A.) FOR TERM I & II SHALL BE AS FOLLOWS**

Term	Type of Assessment	Percentage of Weightage in Academic Session for both Terms	Termwise Weightage	Total
First Term (April - Sept.)	Summative 1 Theory Paper	15%	15+35	50%
	Practicals	35%		
Second Term (Oct.- March)	Summative 2 Theory Paper	15%	15+35	50%
	Practicals	35%		
<b>Total</b>				<b>100%</b>

	Term-I		Term-II		Total
Theory	15%	+	15%	=	30%
Practical	35%	+	35%	=	70%
<b>Total</b>					<b>100%</b>

## Carnatic Music (Code No. 034)

Any one of the following can be offered : (Hindustani or Carnatic)

- |  |  |
|--|--|
| 1. Carnatic Music-Vocal                  | 4. Hindustani Music-Vocal                  |
| or                                       | or   |
| 2. Carnatic Music-Melodic Instruments    | 5. Hindustani Music Melodic Instruments    |
| or                                       | or   |
| 3. Carnatic Music-Percussion Instruments | 6. Hindustani Music Percussion Instruments |

### (i) CARNATIC MUSIC VOCAL

**THE WEIGHTAGE FOR FORMATIVE ASSESSMENT (F.A.) AND SUMMATIVE ASSESSMENT (S.A.) FOR TERM I & II SHALL BE AS FOLLOWS**

Term	Type of Assessment	Percentage of Weightage in Academic Session for both Terms	Termwise Weightage	Total
First Term (April - Sept.)	Summative 1 Theory Paper	15%	15+35	50%
	Practicals	35%		
Second Term (Oct. - March)	Summative 2 Theory Paper	15%	15+35	50%
	Practicals	35%		
<b>Total</b>				<b>100%</b>

	Term-I		Term-II		Total
Theory	15%	+	15%	=	30%
Practical	35%	+	35%	=	70%
<b>Total</b>					<b>100%</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT  
FIRST TERM (APRIL 2016 - SEPTEMBER 2016)  
CARNATIC MUSIC (VOCAL) (CODE 031) CLASS IX**

**TOPIC**

**(A) Theory**

**15 Marks**

1. Brief history of Carnatic Music with special reference to Saint Purandara Dasa, Tyagaraja, Muthuswamy and Shyama Shastri.
2. Definition of the following terms - Sangeetam, Arohana, Avarohana, Dhatu, Matu, Sruti, Sthayi, Alankara, Uttaranga, Poorvanga, Svara, Swara-Prakriti and Vikriti Varas.
3. Brief raga lakshana of (a) Mohanam (b) Malahar c) Bilahari (d) Khamas (e) Sankarabharanam (f) Mayamalavagaula
4. Brief knowledge about the theory of a) Geetamb) Svarajati, a) Svaravali-Sarali Varisai, Janta Varisai, Dhatu Varisai, Hechchu & Taggu Sthayi, Varisai, Alankaras in two speeds, Aditala Varnam
5. Description about Talas - Adi, Roopaka, Introduction to Suladi Sapta Talas.

**(B) Practical**

**25 marks**

1. Singing of National Anthem and any song pertaining to community singing, a folk song.
2. Singing alankara in two degrees of Speed.
3. Singing two Pillari Gita, two Sadharana Geeta or Sanchari Geeta and Bilahari and Khamas Svarajatis
4. Rendition of Arohana and Avarohana of Mayamalavagoula, Malahari and Mohanam, Sankarabharana, Bilahari and Khamas

**(C) Project Work - Two Reports**

**10 Marks**

**Project Work-Guidelines - Term I**

Watch classical Carnatic Music programmes over different T.V. channels or live concerts and report the following:

1. Date of Telecast:-
2. Name of the T.V. Channel:-
3. Details of the artistes (Both main and accompanying artistes)
4. Details of items presented:-
5. Whether regular concert or thematic concert:-
6. Photographs of the concert can be given (if possible)

Minimum two reports and maximum six (best two will be valued) have to be submitted by the students

during the practical examination.

**(I) CARNATIC MUSIC (VOCAL) (CODE NO. 031)**  
**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT**  
**FIRST TERM (APRIL 2016 - SEPTEMBER 2016)**  
**CLASS - IX**

Time: 2 hours

Total Marks: 50

The Question Paper will be divided into two sections:

Theory - 15 marks

Practical - 35 marks

Scheme of Section and Weightage to content:

Section	Details of Topics/ Sections		Types of Questions	No. of Questions	Marks
Theory	1	Definitions of the following terms: Sangeetam, Arohana, Avarohana, Dhatu, Matu, Sruti, Svara, Sthayi, Alankara, Uttaranga, Poorvanga, Svaravalis	MCQ	01 (four parts A, B, C, D)	02
	2	Brief knowledge about the following ragas: a) Mohanam b) Malahari c) Bilahari d) Mayamala-vagaula e) Khamas f) Sankarabharnam	SA	01	03
	3	Description of the following Talas - Adi, Roopaka, Suladi Sapta Talas	SA	01	03
	4	Introduction to the following musical forms Geetam, Svarajati, Svaravalis, Alankaras and Var-nams	SA	01	03
	5	An outline Biography of Purandara Dasa, Tyagaraja, Muthuswamy Dikshitra, Shyama Shastri	LA	01	04
					<b>Total 15</b>
Practical	1	Identification of 12 Svarasthanas	-	02	03
	2	singing of Svaravalis and Sapthatala Alankaras in two speed	-	03	09
	3	Singing Pillari Geetam and Sadharana Geetaam and Bilahari Swarajathi and Kamas ( One Speed)	-	03	09
	4	Arohana and Avarohana of the following Raga: Mayamalavagoula and Malahari, Mohanam , Bilahari, Khamas and Sankarabharanam (Minimum 2)	-	02	04
					<b>Total 25</b>
Project work	Watch Carnatic classical music programmes in different T.V. channels or live concerts and prepare reports on the same		Minimum Two and Maximum six reports	02	10
					<b>Total 35</b>

**C) Project Work-Guidelines - Term I**

Minimum two reports and maximum six (best two will be valued) have to be submitted by the students

during the practical examination. Watch Classical Carnatic Music programmes over different T.V. channels or live concerts and report the following:

1. Date of Telecast:-
2. Name of the T.V. Channel:-
3. Details of the artistes (Both main and accompanying artistes):-
4. Details of items presented:-
5. Whether regular concert or thematic concert:-
6. Photographs of the concert can be given (if possible):-

**SYLLABUS FOR SUMMATIVE ASSESSMENT  
SECOND TERM (OCTOBER 2016 - MARCH 2017)  
CARNATIC MUSIC (VOCAL) (CODE 031) CLASS: IX**

**(A) Theory 15 Marks**

1. Brief history of Carnatic Music with special reference to Swati Tirumal, Bhadrachala Ramdas and Annamacharya
2. Definition of the following: Nada, Raga, Tala, Laya, Graha (Sama, Atita, Anagata), Vadi, Samvadi, Anuvadi, Vivadi, Svaramsa, Nyasa and Jeeva
3. Brief Raga Lakshana of:
  - Kharaharapriya
  - Kalyani,
  - Abhogi and Hindolam
4. Introduction of the following Talas:
  - Adi - Double Kalai
  - Rupaka
  - Chapu - Misra, Khanda, Tisra

**(B) Practical 25 marks**

1. Singing of Sapta Tala Alankaras in three degree of speed.
2. Singing Geetam, Svarajati, Varanams and simple Devarnamas.
3. Rendering the Arohana and Avarohana with correct Svarasthana and Gamaka of Kharaharapriya, Kalyani and Abhogi and Hindolam.
4. National Anthem, Folk Song, Devotional, Patriotic. (minimum from the list)

**C) Project Work-Two Reports 10 Marks**

**Project Work-Guidelines - Term II**

Watch Classical Carnatic Music programmes over different T.V. channels or on live concerts and report

the following:

1. Date of Telecast:-
2. Name of the T.V. Channel:-
3. Details of the artistes (Both main and accompanying artistes):-
4. Details of items presented:-
5. Whether regular concert or thematic concert:-
6. Photographs of the concert can be given (if possible):-

Minimum two reports and Maximum six (best two will be valued) have to be submitted by the students during the practical examination.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT  
SECOND TERM (OCTOBER 2016 - MARCH 2017)  
CARNATIC MUSIC (VOCAL) (CODE 031) CLASS - IX**

Time: 2 hours

Total Marks: 50

The Question Paper will be divided into two sections:

Theory - 15 marks

Practical - 35 marks

Scheme of Section and Weightage to content:

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Svara (Amsa, Jeeva and Nyasa), Raga, Tala, Laya (Vilamba, Madhya, Druta), Graha (Sama, Atita, Anagata),	MCQ	01	02
	2	Brief history with special reference to Swati Tirumal, Annamacharya and Bhadrachala Ramdas	LA	01	05
	3	Brief raga Lakshana Kalyani, Kharaharapriya, Abhogi and Hindolam	SA	01	04
	4	Basic knowledge of Notation of Adi, Rupaka.	SA	01	04
					<b>Total 15</b>
Practical	1	Singing of Sapta Tala Alankaras in three degree of speed	-	02	<b>06</b>
	2	Singing Geetam, Svarajati, simple Devarnamas, Varnams	-	03	10
	3	Arohana-Avarohana of Kharaharapriya, Abhogi and Hindolam, Kalyani, Khamas	-	02	04
	4	(a) National Anthem (b) Folk song (c) Devotional (d) Patriotic	-	02	05
					<b>Total 25</b>
Project work	Watch Carnatic classical music programmes in different T.V. channels or live concerts and prepare reports on the same.		Minimum Two and Maximum six reports	02	<b>10</b>
					<b>Total 35</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT**  
**FIRST TERM (APRIL 2016 - SEPTEMBER 2016)**  
**CARNATIC MUSIC (VOCAL) (CODE 031)**  
**CLASS: X**

**TOPIC**

**(A) Theory**

**15 marks**

1. Brief knowledge about the Raga classification.
2. Rudiments of Notation system. Notation of geetam/svarajati varanam in single speed.
3. Brief knowledge about Raga lakshana of Sriranjani, Suddha Dhanyasi and Hamsadhvani
4. Basic knowledge about the musical form Varnam, Kirtana, Kriti.
- 5.

**(B) Practical**

**25 Marks**

1. Rendition of simple composition like Namavalis or Divyanama Sankeertanams.
2. Outline knowledge of Raga Kalyani: or Sankarabharanam, Kharaharapriya.
3. Singing alankaras in ragas other than Mayamalavagoula.
4. Singing one Jatisvaram, one Kriti, one Kirtana.
5. Two Adi tala varna in two degree of speed.

**(C) Project Work**

**10 Marks**

**Project Work-Guidelines - Term I**

Watch classical Carnatic Music programmes over different T.V. channels or live concerts and report the following:

1. Date of Telecast:-
2. Name of the T.V. Channel:-
3. Details of the artistes (Both main and accompanying artistes):-
4. Details of items presented:-
5. Whether regular concert or thematic concert:-
6. Photographs of the concert can be given (if possible):-

Minimum four reports and maximum ten (best four will be valued) have to be submitted by the students during the practical examination.



**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT  
FIRST TERM (APRIL 2016 - SEPTEMBER 2016)  
Carnatic Music (Vocal) (CODE 031) CLASS: X**

Time: 2 hours

Total Marks: 50

The Question Paper will be divided into two sections:

**Theory - 15 marks**

**Practical - 35 marks**

Scheme of Section and Weightage to content:

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Raga classification in general	MCQ	01	02
	2	Basic principle of notation. Notation of Geetam and Svarajati, Varanam in one speed.	SA	01	03
	3	Brief raga lakshana about- Suddha Dhanyasi and Shriranjini and Hamsadhwani and Hamsadhwani	LA	01	04
	4	An outline knowledge about Varnam, Kirti and Kirtana	SA	01	03
	5	Understanding the structure of Tambura	SA	01	03
					<b>Total 15</b>
Practical	1	Singing of simple Namavali/Keertanas, Kirti	-	01	04
	2	Outline knowledge in singing Suddha Dhanyani and Srivanjani and Hamsadhwani	-	01	04
	3	Rendition of one Jatisvaram or one Keertana, one Kirti	-	03	08
	4	Alankara in a raga other than Mayamalavagoula	-	02	04
	5	Adi Tala Varna in two degree speed	-	01	05
					<b>Total 25</b>
<b>Project work</b>	Watch Carnatic classical music programmes in different T.V. channels or live concerts and prepare reports on the same.		Minimum Four and Maximum ten reports	02	10
					<b>Total 35</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT**  
**SECOND TERM (OCTOBER 2016 - MARCH 2017)**  
**CARNATIC MUSIC (VOCAL) (CODE 031)**  
**CLASS: X**

**TOPIC**

**(A) Theory 15 marks**

1. Brief knowledge about the scheme of 72 Melakartha.
2. Advanced knowledge of notation of Carnatic Music, Notation of a Varnam in two degrees.
3. Raga lakshana of the following ragas: Suddhasaveri, Kambhoji and Anandabharavi and Keeravani
4. Detailed study of the musical form Jatiswaram, Varanam and Kriti.

**(B ) Practical 25 marks**

1. Community singing of Bhajans or Namavalis.
2. Knowledge about the raga Kamboji, Suddhasaveri and Anandabharavi and Keeravani.
3. Singing alankara in a raga other than Mayamalavagoula in three degrees.
4. Rendition of any two kritis from prescribed ragas.
5. Singing two Adi tala varna in two degree of speed.

**(C) Project Work 10 Marks**

**Project Work-Guidelines - Term II**

Watch classical Carnatic Music programmes over different T.V. channels or live concerts and report the following:

1. Date of Telecast:-
2. Name of the T.V. Channel:-
3. Details of the artistes (Both main and accompanying artistes):-
4. Details of items presented:-
5. Whether regular concert or thematic concert:-
6. Photographs of the concert can be given (if possible):-

Minimum four reports and maximum ten (best four will be valued) have to be submitted by the students during the practical examination.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT  
SECOND TERM (OCTOBER 2016 - MARCH 2017)  
CARNATIC MUSIC (VOCAL) (CODE 031)  
CLASS: X**

Time: 2 hours

Total Marks: 50

The Question Paper will be divided into two sections:

Theory - 15 marks

Practical - 35 marks

Scheme of Section and Weightage to content:

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Brief knowledge about 72 Melakartha scheme	LA	01	04
	2	Basic principles of notation system, Notation of Varnam in two degrees	LA	01	04
	3	Raga lakshana in brief for Keeravani, Kambhoji and Suddhasaveri and Anandabharavi	LA	01	04
	4	Brief Lakshanas of Jati Swaram, Kriti and Kirtana	LA	01	03
					<b>Total 15</b>
Practical	1	Singing Bhajans or devotional hymns	-	01	03
	2	An outline knowledge of Kambhoji, Suddhasaveri and Anandabharavi and Keeravani	-	02	08
	3	Singing alankara in raga other than Mayamalavagoulain three degrees of speed	-	02	06
	4	Rendition of two kritis	-	01	06
	5	Two Adi tala varna in two degree of speed	-	02	05
					<b>Total 25</b>
Project work	Watch Carnatic classical music programmes in different T.V. channels or live concerts and prepare reports on the same.		Minimum Four and Maximum ten reports	02	10
					<b>Total 35</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT**  
**FIRST TERM (APRIL 2016 - SEPTEMBER 2016)**  
**(ii) CARNATIC MUSIC (MELODIC INSTRUMENTS) (CODE: 032)**  
**CLASS: IX**

**TOPIC**

**(A) Theory** **15 marks**

1. Definition of the following terms Sangeetam, Nada, Arohana, Avarohana, Dhatu, Matu, Sruti, Sthayi, Alankara, Uttaranga, Poorvanga, Vilamba, Madhya, Druta laya.
2. Knowledge about the following ragas:
  - i) Sankarabharanam ii) Hamsadhwani iii) Mohanam
3. Ability to describe the following talas : Adi; Roopkam
4. Knowledge of the musical forms : Geetam, Svarajati, Swaravalis, Sarali, Jantai, Dattu, Heehusthayi, Taggusthayi and Alankaras
5. A short biography of Sh. Purandara Dasa, Sh. Thyagaraja, Muthuswamy Dikshitar, Shyama Shastri.

**(B ) Practical** **25 Marks**

1. Knowledge about basic techniques of any one of the choosen instruments:
  - a) Veena b) Flute c) Violin d) Mandolin
2. An introduction of Sapta Tala Alankaras.
3. Lakshana of the musical forms Pillari Geeta and Sadharana Geeta or Sanchari Geeta.
4. An outline knowledge of Raga Lakshanas of : Sankarabharanam, Hamsadhwani and Mohanam.

**(C) Project Work** **10 Marks**

**Project Work-Guidelines - Term I**

Watch Classical Carnatic Music programmes over different T.V. channels or live concerts and report the following:

1. Date of Telecast:-
2. Name of the T.V. Channel:-
3. Details of the artistes (Both main and accompanying artistes):-
4. Details of items presented:-
5. Whether regular concert or thematic concert:-
6. Photographs of the concert can be given (if possible) :-

Minimum four reports and maximum ten (best four will be valued) have to be submitted by the students during the practical examination.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT**

**FIRST TERM (APRIL 2016 - SEPTEMBER 2016)**

**(ii) CARNATIC MUSIC (MELODIC INSTRUMENTS) (CODE 032) CLASS: IX**

**Time: 2 hours**

**Total Marks: 50**

**The Question Paper will be divided into two sections:**

**Theory - 15 marks**

**Practical - 35 marks**

**Scheme of Section and Weightage to content:**

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Definition of the following terms: Sangeetam, Arohana, Avarohana, Dhatu, Matu, Sruti, Sthayi, Nada, Alankara, Poorvanga, Uttaranga, Svaravali	MCQ	01 (four parts A, B, C, D)	02
	2	Brief knowledge about the following ragas: a) Sankarabharanam b) Hamsadhwani c) Mohanam	SA	01	03
	3	Description of the following Talas - Adi, Rupakam	SA	01	03
	4	Brief lakshanas of musical form Geetam, Svarajati, Svaravalis and Alankaras	SA	01	03
	5	An outline Biography of Purandara Dasa, Sh. Thyagaraja, Muthuswamy Dikshita, Shyama Shastri	LA	01	04
					<b>Total 15</b>
Practical	1	Basic techniques of Instrument playing	-	01	05
	2	Playing technique of <b>Sapta Tala</b> Alankaras	-	02	06
	3	Playing Pillari Geeta and Sadharana or Sanchari <b>Geeta</b>	-	02	08
	4	Playing Arohana and Avarohana of the following Ragas: a) Sankarabharanam b) Hamsadhwani c) Mohanam	-	01	06
					<b>Total 25</b>
<b>Project Work</b>	Watch Carnatic classical music programmes in different T.V. channels or live concerts and prepare reports on the same.		Minimum Four and Maximum ten reports	02	10
					<b>Total 35</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT**  
**SECOND TERM (OCTOBER 2016 - MARCH 2017)**  
**CARNATIC MUSIC (MELODIC INSTRUMENTS) (CODE 032)**  
**CLASS: IX**

**(A) Theory** **15 marks**

1. Brief history of Carnatic Music with special reference to Swati Tirunal, Bhadrachala Ramdas and Annamacharya.
2. Definition of the following: Svara (Suddha, Vikrita), Raga, Tala, Laya (Vilamba, Madhya, Druta), Graha (Sama, Atita, Anagata) Anya Swara
3. Brief Raga Lakshana of the following: Mayamalava Gaula, Kalyani and Kharaharapriya.
4. Notation of following Talas: Geetam in Rupaka and Triputa.

**(B) Practical** **25 marks**

1. Rendering of Sapta Tala Alankaras in two speeds.
2. Arohana and Avarohana and brief outline of Ragas: Mayamalavagoula, Kalyani, Kharaharapriya.
3. Rendering of the following musical forms:
  - a) Two Geatams
  - b) one Svarajati
  - c) one Adi Tala Varnam in one speed
4.
  - Rendering of National Anthem
  - Folk Song
  - Devotional song

**(C) Project Work** **10 Marks**

**Project Work-Guidelines - Term II**

Watch Classical Carnatic Music programmes over different T.V. channels or live concerts and report

the following:

1. Date of Telecast:-
2. Name of the T.V. Channel:-
3. Details of the artistes (Both main and accompanying artistes):-
4. Details of items presented:-
5. Whether regular concert or thematic concert:-
6. Photographs of the concert can be given (if possible):-

Minimum four reports and maximum ten (best four will be valued) have to be submitted by the students during the practical examination.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT**  
**SECOND TERM (OCTOBER 2016 - MARCH 2017)**  
**CARNATIC MUSIC (MELODIC INSTRUMENTS) (CODE 032) CLASS: IX**

Time: 2 hours

Total Marks: 50

The Question Paper will be divided into two sections:

Theory - 15 marks

Practical - 35 marks

Scheme of Section and Weightage to content:

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Svara (Suddha, Vikrita), Raga, Tala, Laya (Vilamba, Madhya, Druta), Graha (Sama, Atita, Anagata), Vadi, Samvadi, Anuvadi, Vivadi)	MCQ	01	02
	2	Brief history with special reference to Swati Tirumal, Bhadrachala Ramdas and Annamacharya	LA	01	05
	3	Brief raga Lakshana of Mayamalavagiula, Kalyani, Kharaharapriya	SA	01	04
	4	Notation of Gitam and Swarawali Alankaram	SA	01	04
					<b>Total 15</b>
Practical	1	Rendering of Sapta Tala Alankaras in two degrees	-	01	06
	2	Arohana-Avarohana and brief outline of Mayamalavagaula, Kalyani, Kharaharapriya	-	01	05
	3	Rendering of two Geatams, One Svarajati, Adi Tala Varnam in one speed	-	03	10
	4	Rendering of National Anthem a) Folk song b) Devotional	-	02	04
					<b>Total 25</b>
<b>Project Work</b>	Watch Carnatic classical music programmes in different T.V. channels or live concerts and prepare reports on the same.		Minimum Four and Maximum ten reports	02	10
					<b>Total 35</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT**  
**FIRST TERM (APRIL 2016 - SEPTEMBER 2016)**  
**CARNATIC MUSIC (MELODIC INSTRUMENT) (CODE 032)**  
**CLASS: X**

**TOPIC**

**(A) Theory** **15 marks**

1. Raga classification in general.
2. Raga lakshana of Suddha Dhanyasi and Sri Ranjani and Kambhoji.
3. Basic principles of Notations, Notation of Adi Tala Varna in two speeds.
4. Basic knowledge of the structure and tuning of the instrument opted for.
5. Outline knowledge of Kriti and Jatisvarams, Kirtana and Varnam.

**(B) Practical** **25 marks**

1. Musical Form - Adi tala Varnam in two degrees of speed.
2. Practical knowledge about the Raga Suddha Dhanyasi and Sri Ranjani and Kambhoji.
3. Tuning of the instrument opted for.
4. Rendering simple Keertanams and Jatisvaram and Varanams.

**(C) Project Work** **10 Marks**

**Project Work-Guidelines - Term I**

Watch classical Carnatic Music programmes over different T.V. channels or live concerts and report the following:

1. Date of Telecast:-
2. Name of the T.V. Channel:-
3. Details of the artistes (Both main and accompanying artistes):-
4. Details of items presented:-
5. Whether regular concert or thematic concert:-
6. Photographs of the concert can be given (if possible):-

Minimum four reports and maximum ten (best four will be valued) have to be submitted by the students during the practical examination.



**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT:  
FIRST TERM (APRIL 2016 - SEPTEMBER 2016)  
CARNATIC MUSIC (MELODIC INSTRUMENT) (CODE 032)**

**CLASS: X**

**Time: 2 hours**

**Total Marks: 50**

**The Question Paper will be divided into two sections:**

**Theory - 15 marks**

**Practical - 35 marks**

**Scheme of Section and Weightage to content:**

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
<b>Theory</b>	1	Raga classification in general	SA	01	03
	2	Brief Raga Lakshana of Suddha Dhanyasi and Sri Ranjani and Kambhoji.	SA	01	03
	3	Knowledge of structure and tuning of the instrument opted for	LA	01	04
	4	Basic principle of Notation. Notation of simple Adi Tala Varna in two speeds.	SA	01	03
	5	MCQ for above topics	MCQ	01	02
					<b>Total 15</b>
<b>Practical</b>	1	Rendering simple Keertanam/ Jatisvaram	-	02	06
	2	Playing Adi tala Varna in two degree speed	-	01	05
	3	Practical knowledge of about the Raga Kamboji, Suddha Dhanyasi and Sri Ranjani.	-	01	06
	4	Knowledge of tuning instrument opted for	-	01	04
	5	Alankara in a raga other than Mayamalavagoula in two speeds.	-	01	04
					<b>Total 25</b>
<b>Project Work</b>	Watch Carnatic classical music programmes in different T.V. channels or live concerts and prepare reports on the same.		Minimum Four and Maximum ten reports	02	10
					<b>Total 35</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT**  
**SECOND TERM (OCTOBER 2016 - MARCH 2017)**  
**CARNATIC MUSIC (MELODIC INSTRUMENTS) (CODE 032)**  
**CLASS: X**

**TOPICS**

**(A) Theory 15 marks**

1. Brief knowledge lakshana of musical forms Kriti and Keertana.
2. Principles of writing notation of simple Kritis in Adi and Rupaka talas.
3. Practical knowledge of ragas: Abhogi, Nata, Hindolam.
4. An outline knowledge of 72 melakarta.

**(B) Practical 25 marks**

1. Brief lakshana of the musical forms Kriti and Keertana.
2. Basic knowledge of the tuning and playing techniques of the instrument opted for.
3. Knowledge of practical ability to play the ragas : Abhogi, Nata, Hindolam.
4. Giving solo performance of students choice.

**(C) Project Work 10 marks**

**Project Work-Guidelines - Term II**

Watch classical Carnatic Music programmes over different T.V. channels or live concerts and report

the following:

1. Date of Telecast:-
2. Name of the T.V. Channel:-
3. Details of the artistes (Both main and accompanying artistes):-
4. Details of items presented:-
5. Whether regular concert or thematic concert:-
6. Photographs of the concert can be given (if possible):-

Minimum four reports and maximum ten (best four will be valued) have to be submitted by the students during the practical examination.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT:  
SECOND TERM (OCTOBER 2016 - MARCH 2017)  
CARNATIC MUSIC (MELODIC INSTRUMENTS) (CODE 032)  
CLASS: X**

Time: 2 hours

Total Marks: 50

The Question Paper will be divided into two sections:

Theory - 15 marks

Practical - 35 marks

Scheme of Section and Weightage to content:

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Brief lakshana of musical forms Kriti and Keertana	SA	01	03
	2	Knowledge of writing notation of simple Kritis in Adi and Rupaka talas	LA	01	04
	3	Practical knowledge of following ragas: a) Abhogi b) Nata, Hindolam c) Raga Lakshna	SA	01	03
	4	Objective type questions based on topics 1 to 3	MCQ	01	02
	5	An outline knowledge of 72 melakarta scheme	SA	01	03
					<b>Total 15</b>
Practical	1	Ability to play the musical forms Kriti and Keertana	-	-	04
	2	Basic knowledge of Tuning the instruments opted for	-	-	04
	3	Practical ability to play the ragas Abhogi, Nata, Hindolam	-	-	07
	4	Solo performance of students choice	-	-	10
	5	Alankara in a raga other than Mayamalavagoula in two speeds.	-	01	04
					<b>Total 25</b>
Project Work	Watch Carnatic classical music programmes in different T.V. channels or live concerts and prepare reports on the same.		Minimum Four and Maximum ten reports	02	10
					<b>Total 35</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT**  
**FIRST TERM (APRIL 2016 - SEPTEMBER 2016)**  
**(iii) CARNATIC MUSIC (PERCUSSION INSTRUMENTS) (CODE 033)**  
**CLASS: IX**

**TOPICS**

**(A) Theory 15 marks**

1. Definition of the following terms: Tala, Laya, Avartana, Kala & Kaala and Graha, Nada, Sangeetam, Graha (Sama, Atita, Anagata)
2. Basic knowledge of opted instrument.
3. Description and writing of Tala notation of Adi and Rupaka talas.

**(B ) Practical 25 marks**

1. Knowledge of basic techniques of Sollukattus of Mridangam (OR) Ghatam.
2. Ability to play the talas of Adi and Rupaka.
3. Ability to recite Sollukattus for different talas.

**(C) Project Work 10 Marks**

**Project Work-Guidelines - Term I**

Watch classical Carnatic Music programmes over different T.V. channels or live concerts and report the following:

1. Date of Telecast
2. Name of the T.V. Channel
3. Details of the artistes (Both main and accompanying artistes)
4. Details of items presented
5. Whether regular concert or thematic concert
6. Photographs of the concert can be given if possible

Minimum four reports and maximum ten (best four will be valued) have to be submitted by the students during the practical examination.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT  
FIRST TERM (APRIL 2016 - SEPTEMBER 2016)  
CARNATIC MUSIC (PERCUSSION INSTRUMENTS) (CODE 033)**

**CLASS: IX**

**Time: 2 hours**

**Total Marks: 50**

**The Question Paper will be divided into two sections:**

**Theory - 15 marks**

**Practical - 35 marks**

**Scheme of Section and Weightage to content:**

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Definition of the following terms: Nada, Tala, Sruti, Avartanam, Kala, Kaala Graha, Nada, Sangeetam, Laya (Vilamba, Madhya, Druta)	MCQ	01	02
	2	Basic knowledge of instrument opted for	LA	01	07
	3	Description and ability to write notations of Adi Tala and Rupaka	SA	01	03
	4	Objective type questions based on above mentioned topics	SA	01	03
					<b>Total 15</b>
Practical	1	Knowledge of basic techniques and Sollukattus of Mridangam (OR) Ghatam	-	01	08
	2	Ability to play the talas of Adi and Rupaka	-	01	10
	3	Ability to recite sollukattus for different talas	-	01	07
					<b>Total 25</b>
Project Work	Watch Carnatic classical music programmes in different T.V. channels or live concerts and prepare reports on the same.		Minimum Four and Maximum ten reports	02	10
					<b>Total 35</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT**  
**SECOND TERM (OCTOBER 2016 - MARCH 2017)**  
**CARNATIC MUSIC (PERCUSSION INSTRUMENTS) (CODE 033)**  
**CLASS: IX**

- (A) Theory 15 marks
1. Brief history of Carnatic Music with special reference to Purandara Dasa and Tyagaraja, St. Thyagaraja, Muthuswamy Dikshitas and Shyama Shastri.
  2. Definition of the following terms: Nada, Svara, Sthayi, Raga, Tala, Laya, Graha, Alankara, Arohana, Avarohana, Uttaranga, Poorvanga.
  3. Notation of sollukkattus for the following Talas: Adi, Rupaka and Chapu Talas (all variety)
  4. Brief Lakshana of Geetam, Svarajati, Varnam

- (B) Practical 25 marks
1. Recitation of Sapta Tala Alankaras in two degrees.
  2. Recitation of sollukattus in Adi, Rupaka, Chapu.
  3. Playing on instrument simple sollus in Adi, Rupaka, Chapu.
  4. Simple playing technique of Ghatam or Kanjira.

- (C) Project Work 10 marks
- Project Work - Guidelines - Term II**

Watch classical Carnatic Music programmes over different T.V. channels or live concerts and report the following:

1. Date of Telecast:-
2. Name of the T.V. Channel:-
3. Details of the artistes (Both main and accompanying artistes):-
4. Details of items presented:-
5. Whether regular concert or thematic concert:-
6. Photographs of the concert can be given (if possible):-

Minimum four reports and maximum ten (best four will be valued) have to be submitted by the students during the practical examination.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT  
SECOND TERM (OCTOBER 2016 - MARCH 2017)  
CARNATIC MUSIC (PERCUSSION INSTRUMENTS) (CODE 033)**

**CLASS: IX**

**Time: 2 hours**

**Total Marks: 50**

**The Question Paper will be divided into two sections:**

**Theory - 15 marks**

**Practical - 35 marks**

**Scheme of Section and Weightage to content:**

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
<b>Theory</b>	1	Svara (Suddha, Vikrita), Sthayi, Raga, Tala, Laya, Alankara, Arohana, Avarohana, Uttaranga, Poorvanga	MCQ	01	02
	2	Brief history of Carnatic Music with special reference to Purandara Dasa, Tyagaraja, Muthuswamy Dikshitas and Shyama Shastri	SA	01	04
	3	Notation of the following Talas of sollukattus for: Adi, Rupaka and Chapu Talas (all variety)	LA	01	05
	4	Brief lakshanas of Geetam, Svarajati, Varnam	SA	01	04
					<b>Total 15</b>
<b>Practical</b>	1	Recitation of Sapta Talas Alankaras in Tattakaram	-	01	07
	2	Recitation of Sollukattu in Adi, Rupaka, Chapu Talas	-	01	08
	3	Playing on instrument Adi, Rupaka, Chapu (Simple Sollus)	-	01	07
	4	Simple playing technique of Ghatam or Kanjira	-	01	03
					<b>Total 25</b>
<b>Project Work</b>	Watch Carnatic classical music programmes in different T.V. channels or live concerts and prepare reports on the same.		Minimum Four and Maximum ten reports	02	10
					<b>Total 35</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT**  
**SECOND TERM (OCTOBER 2016 - MARCH 2017)**  
**CARNATIC MUSIC (PERCUSSION INSTRUMENTS) (CODE 033)**  
**CLASS: X**

**TOPICS**

**(A) Theory** **15 marks**

1. Basic principles of Notation in Carnatic Music.
2. Outline knowledge of different schools of playing of Mridangam.
3. Brief life sketch of the following:
  - a) Palani Subrahmania Pillavi
  - b) Palghat Manilyer
4. An outline knowledge of principles of practical performance.

**(B) Practical** **25 Marks**

1. Ability to prepare Sollukattu for Chapu talas.
2. Practical ability to accompany for Padam and Tillana.
3. Practical knowledge to play "Tani Avartanam" in simple Talas.
4. Ability to prepare Mohra and Korvai Chapu and Triputa Tala.

**(C) Project Work** **10 marks**

**Project Work-Guidelines - Term II**

Watch classical Carnatic Music programmes over different T.V. channels or live concerts and report the following:

1. Date of Telecast:-
2. Name of the T.V. Channel:-
3. Details of the artistes (Both main and accompanying artistes):-
4. Details of items presented:-
5. Whether regular concert or thematic concert:-
6. Photographs of the concert can be given (if possible):-

Minimum four reports and maximum ten (best four will be valued) have to be submitted by the students during the practical examination.



**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT  
FIRST TERM (APRIL 2016 - SEPTEMBER 2016)  
CARNATIC MUSIC (PERCUSSION INSTRUMENTS) (CODE 033)**

**CLASS: X**

**Time: 2 hours**

**Total Marks: 50**

**The Question Paper will be divided into two sections:**

**Theory - 15 marks**

**Practical - 35 marks**

**Scheme of Section and Weightage to content:**

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
<b>Theory</b>	1	Knowledge of the structure of Mridangam, tuning	LA	01	07
	2	Knowledge of Saptatala Alankaras	SA	01	03
	3	Knowledge of Anga, Shadanga, Korvai, Korrupu	SA	01	03
	4	MCQ based on above mentioned topics	MCQ	04	02
					<b>Total 15</b>
<b>Practical</b>	1	Knowledge of tuning Mridangam	-	01	06
	2	To play Sollukattu's and Tathakaram in Talas like Adi and Roopaka	-	01	06
	3	Ability to play for varnam, kriti, Jatisvaram	-	01	05
	4	Ability to prepare simple Mohra and Koruvai in Adi and Roopaka talas	-	01	08
					<b>Total 25</b>
<b>Project Work</b>	Watch Carnatic classical music programmes in different T.V. channels or live concerts and prepare reports on the same.		Minimum Four and Maximum ten reports	02	10
					<b>Total 35</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT  
FIRST TERM (APRIL 2016 - SEPTEMBER 2016)  
CARNATIC MUSIC (PERCUSSION INSTRUMENTS) (CODE 033)  
CLASS: X**

**TOPICS**

**(A) Theory 15 marks**

1. Basic principles of Notation in Carnatic Music.
2. Outline knowledge of different schools of playing of Mridangam.
3. Brief life sketch of the following:
  - a) Palani Subrahmania Pillavi b) Palghat Manilyer
4. An outline knowledge of principles of practical performance.

**(B) Practical**

**25 Marks**

1. Ability to prepare Sollukattu for Chapu talas.
2. Practical ability to accompany for Padam and Tillana.
3. Practical knowledge to play "Tani Avartanam" in simple Talas.
4. Ability to prepare Mohra and Korvai Chapu and Triputa Tala.

**(C) Project Work**

**10 marks**

**Project Work-Guidelines - Term II**

Watch classical Carnatic Music programmes over different T.V. channels or live concerts and report the following:

1. Date of Telecast:-
2. Name of the T.V. Channel:-
3. Details of the artistes (Both main and accompanying artistes):-
4. Details of items presented:-
5. Whether regular concert or thematic concert:-
6. Photographs of the concert can be given (if possible):-

Minimum four reports and maximum ten (best four will be valued) have to be submitted by the students during the practical examination.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT  
SECOND TERM (OCTOBER 2016 - MARCH 2017)  
CARNATIC MUSIC (PERCUSSION INSTRUMENTS) (CODE 033)**

**CLASS: X**

**Time: 2 hours**

**Total Marks: 50**

**The Question Paper will be divided into two sections:**

**Theory - 15 marks**

**Practical - 35 marks**

**Scheme of Section and Weightage to content:**

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Rudiments of notation of Carnatic Music	LA	01	04
	2	Knowledge of different schools of playing in Mridangam	SA	01	03
	3	Life sketch of any one famous Mridangam player	LA	01	04
	4	Brief knowledge of principles of performance	SA	01	02
	5	MCQ on topics given above	MCQ	01	02
					<b>Total 15</b>
Practical	1	To prepare and play Sollukattu for Misra Chapu and Khanta Chapu	-	01	06
	2	Ability to play for Padam and Tillana	-	01	06
	3	Ability to play four Avartana in Mridangam in simple Talas	-	01	05
	4	Ability to prepare Mohra and Korvai	-	01	08
					<b>Total 25</b>
<b>Project Work</b>	Watch Carnatic classical music programmes in different T.V. channels or live concerts and prepare reports on the same.		Minimum Four and Maximum ten reports	02	10
					<b>Total 35</b>

## Hindustani Music

**THE WEIGHTAGE FOR FORMATIVE ASSESSMENT (F.A.) AND SUMMATIVE ASSESSMENT (S.A.) FOR TERM I & II SHALL BE AS FOLLOWS  
(IV) HINDUSTANI MUSIC (VOCAL)**

Term	Type of Assessment	Percentage of Weightage In Academic Session For Both Terms	Termwise Weightage	Total
<b>First Term (April - Sept.)</b>	Formative Assessment I Formative Assessment II	15% 35%	15+35	50%
	Summative Assessment I	50%		
<b>Second Term (Oct.- March)</b>	Formative Assessment III Formative Assessment IV	15% 35%	15+35	50%
	Summative Assessment II	50%		
<b>Total</b>				<b>100%</b>

	Term-I		Term-II		Total
<b>Theory</b>	<b>15%</b>	<b>+</b>	<b>15%</b>	<b>=</b>	<b>30%</b>
<b>Practical</b>	<b>35%</b>	<b>+</b>	<b>35%</b>	<b>=</b>	<b>70%</b>
<b>Total</b>					<b>100%</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT**  
**FIRST TERM (APRIL 2016 - SEPTEMBER 2016)**  
**HINDUSTANI MUSIC VOCAL(CODE 034)**  
**CLASS: IX**

**Time: 2 hours**

**Total Marks: 50**

**Theory**

**15 Marks**

1. Describe the following: Sangeet Dhwani, Nada, Shruti, Swara, Saptak, Thaata, Raga, Aaroha, Avaroha, Pakad, Laya, Tala, Matra, Sam, Khali, Vibhag, Avartan.
2. Notation System of Pt. V.D. Pulaskar OR Pt. V.N. Bhatkhande
3. Ability to do notation of Compositions in Prescribed Ragas.
4. Description of the following Ragas: Raga Alhaiya Bilawal, Raga Yaman
5. Description and ability to do Tala-Notation of the following Tala: Keharwa, Teentala, Dadra.

**Practical**

**35 marks**

1. Six Alankaras set to all prescribed Ragas and Talas.
2. Aaroha, Avaroha, Pakad, Swarmalika, Lakshan geet and drut Khayal with few alaps and tanas in Raga Alhaiya Bilawal and Raga Yaman.
3. (i) National Anthem  
(ii) National Song  
(iii) One Folk or Tribal Song  
(iv) One Patriotic song  
(v) One devotional song
4. Recitation of the thekas of Keharwa, Dadra, Teentala, with dugun, keeping Tala with hand beats.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT:  
FIRST TERM (APRIL 2016 - SEPTEMBER 2016)**

**1. HINDUSTANI MUSIC VOCAL(CODE 034): CLASS: IX**

Time: 2 hours

Total Marks: 50

The Question Paper will be divided into two sections:

Theory - 15 marks

Practical - 35 marks

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Describe the following: Sangeet Dhwani, Nada, Shruti, Swara, Saptak, Thaata, Raga, Aaroha, Pakad Avaroha, Laya, Tala, Matra, Sam Khali, Vibhag, Avartan	SA	01	03
	2	Description of the Ragas: Raga Alhaiya Bilawal, Raga Yaman	LA	02	03
	3	Description and Notation of Tala: Keharwa, Teentala, Dadra	LA	01	02
	4	Notation of compositions of prescribed Raga	LA	01	04
	5	Multiple choice question based on topic 1 and 2	MCQ	06	03
					<b>Total 15</b>
Practical	1	Svarmailka and Lakshan Geet of prescribed Ragas		02	06
	2	Aaroha, Avaroha, Pakad and drut Khayal with few alaps and tanas in Raga Alhaiya Bilawal and Raga Yaman		02	12
	3	(i) National Anthem and National Song (ii) One Folk or Tribal Song (iii) One Patriotic song (iv) One devotional song (v) One community song		02	06
	4	Recitation of the thekas of Keharwa, Dadra, Teentala, with dugun, keeping Tala with hand beats		02	08
	5	Six Alankaras set to all prescribed Talas		01	03
					<b>Total 35</b>
					<b>Total 50</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT:  
SECOND TERM (OCTOBER 2016 - MARCH 2017)  
HINDUSTANI MUSIC VOCAL (CODE 034)  
CLASS: IX**

**Time: 2 hours**

**Total Marks: 50**

**Theory**

**15 Marks**

1. Definition of the following : Vadi, Samvadi, Anuvadi, Vivadi, Jati, Bandish, Sthai, Antara, Swarmalika, Lakshan Geet and Khayal Vibhag, Sam, Tali, Khali, Avartan.
2. An outline history of Hindustani Music of modern period with special reference to the works of Pt. Vishnu Narayan Bhatkhande and Pt. Vishnu Digambar Paluskar.
3. Description and notation of the following Ragas: Bhairav, Kafi.
4. Description and ability to do Tala-notation of the following Talas: Jhaptala, Ektala

**Practical**

**35 Marks**

1. Aaroha, Avroha, Pakad, Swarmalika, Lakshan Geet and Drut Khayal with few Alaps and Tanas in Raga Bhairav and Kafi.
2. Identification of prescribed Ragas from the passages of swaras rendered by the examiner.
3. (a) One folk or tribal song  
(b) One devotional song  
(c) One patriotic song  
(d) One community song
4. Recitation of Thekas of Jhaptala and Ektala with dugun keeping tala with hand beats.
5. Six Alankaras set to all prescribe Ragas and Talas.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT:  
SECOND TERM (OCTOBER 2016- MARCH 2017)  
HINDUSTANI MUSIC VOCAL (Code 034)**

**CLASS: IX**

**Time: 2 hours**

**Total Marks: 50**

**The Question Paper will be divided into two sections:**

**Theory - 15 marks**

**Practical - 35 marks**

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	History of Hindustani Music of modern period with special reference to - Pt. V. N. Bhattachande and Pt. V. D. Paluskar.	LA	01	04
	2	Definitions - Vadi, Samvadi, Anuvadi, Vivadi, Jati Bandish, Sthai, Antara, Khayal, Swarmalika Lakshangeet	SA	01	03
	3	Description and notation of Raga, Bhairav, Kafi	LA	01	04
	4	Description and Tala-notation of Jhaptala and Ektala	LA	01	02
	5	Multiple choice questions based on topics 1 and 2	MCQ	04	02
					<b>Total 15</b>
Practical	1	a) Swarmalika and Lakshan Geet in prescribed Ragas b) Aaroha, Avroha, Pakad and Drut Khayal with few and Alaps and Tanas in Raga Bhairav and Kafi.	-	02 02	<b>06 12</b>
	2	(a) One folk or tribal song (b) One devotional song (c) One patriotic song (d) One community song	-	03	06
	3	Recitation of Thekas of Jhaptala and ektala with dugun, keeping tala with hand beats	-	02	04
	4	Six Alankaras set to all prescribe Talas	-	02	03
	5	Identification of prescribed Ragas from the passages of Swaras.	-	02	04
					<b>Total 35</b>
					<b>Total 50</b>



**SYLLABUS FOR SUMMATIVE ASSESSMENT  
FIRST TERM (APRIL 2016 - SEPTEMBER 2016)  
HINDUSTANI MUSIC (VOCAL) (CODE 034)  
CLASS: X**

**Time: 2 hours**

**Total Marks: 50**

**Theory**

**15 Marks**

1. Describe of the following: Aalap, Tana, Dhrupad, Dhamar, Tarana, Thumri and Lokgeet.
2. Description of Raga Bhupali and Khamaj.
3. Description and ability to do Tala-notation of Chautala and Rupak.
4. Basic knowledge of the structure and tuning of Tanpura.
5. Ability to do notation of prescribed ragas.

**Practical**

**35 Marks**

1. One Vilambit Khayal with simple elaborations in any one prescribed Ragas.
2. Aaroha, Avaroha, Pakad and Drut Khayal in Raga Bhupali and Khamaj with simple elaborations and few tanas.
3. a) One folk song  
b) One patriotic song
4. Recitation of the Thekas of Chautala and Rupak with Dugan, keeping Tala with hand beats.
5. Ability to recognise the prescribed Ragas from the passages of Swaras rendered by the examiner.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT:  
FIRST TERM (APRIL 2016 - SEPTEMBER 2016)  
Hindustani Music (Vocal) (CODE 034)  
CLASS: X**

Time: 2 hours

Total Marks: 50

The Question Paper will be divided into two sections:

Theory - 15 marks

Practical - 35 marks

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Describe: Aalap, Tana, Dhruwad Dhamar Tarana, Thumri and Lokgeet,	LA	02	04
	2	Knowledge of structure and tuning of Tanpura	LA	01	02
	3	Brief description and notation of Raga, Bhupali and Khamaj	LA	02	04
	4	Description and Tala-notation of Chautala and Rupak	SA	01	02
	5	Multiple choice questions based on topic 1 to 4	MCQ	03	03
					<b>Total 15</b>
Practical	1	Aaroha, Avroha, Pakad and Vilambit Khayal with simple elaborations in any prescribed ragas	-	01	10
	2	Aaroha, Avroha, Pakad and Drut Khayal in Raga Bhupali and Khamaj with simple elaborations and few tanas	-	02	12
	3	a) One folk song b) One patriotic song	-	02	04
	4	Recitation of the Thekas of Chautala and Rupak with Dugan, keeping Tala with hand beats	-	02	06
	5	Ability to recognise the prescribed Ragas from the passages of Swaras rendered by the examiner	-	02	03
					<b>Total 35</b>
					<b>Total 50</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT  
SECOND TERM (OCTOBER 2016 - MARCH 2017)  
HINDUSTANI MUSIC (VOCAL) (CODE 034)  
CLASS: X**

**Time: 2 hours**

**Total Marks: 50**

**Theory**

**15 Marks**

1. Origin and development of Dhrupad and Khayal
2. Definition of the Following: Meend, Kan, Khatka, Murki
3. Brief life sketch of Miyan Tansen Sadarang and ustad Faiyaz Khan.
4. Ability to do the Tala-notation of Tilwada and Sultala with Dugun.
5. Description of Raga Des and Durga.
6. Ability to do notation of prescribed Ragas.

**Practical**

**35 Marks**

1. One Vilambit Khayal with simple elaborations in any one prescribed Ragas.
2. One Dhrupad with Dugun in any one prescribed Ragas.
3. Aaroha, Avroha, Pakad, Swarmalika, lakshan Geet and Drut Khayal with simple elaborations and few Tanas in Raga Des and Durga
4. (a) One folk song  
(b) One patriotic song
5. Recitation of the Thekas of Tilwada and Sultala with Dugun, keeping Tala with hand beats.
6. Ability to recognise the prescribed Ragas from the passages of Swaras rendered by the examiner.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT:  
SECOND TERM (OCTOBER 2016 - MARCH 2017)  
HINDUSTANI MUSIC VOCAL (CODE 034)  
CLASS: X**

Time: 2 hours

Total Marks: 50

The Question Paper will be divided into two sections:

Theory - 15 marks

Practical - 35 marks

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Origin and development of Dhrupad and Khayal	LA	01	03
	2	Definition of Meend, Kan, Khatka, Murki	SA	02	02
	3	Brief life sketch of Miyan Tansen and ustad Faiyaz Khan, Sadarang	LA	01	03
	4	Brief description and notation of Raga Des and Durga	LA	01	03
	5	Description and Tala-notation of Tilwada and Sultala with dugun	SA	01	02
	6	Multiple choice questions based on topics 1-5	MCQ	04	02
					<b>Total 15</b>
Practical	1	Aaroha, Avroha, Pakad, Vilambit khyal and Dhrupad with Dugun in any prescribed Ragas	-	02	12
	2	Aaroha, Avroha, Pakad, and Drut Khayal with simple elaborations and few Tanas in Raga Durga and Des	-	02	10
	3	(a) One folk song (b) One patriotic song	-	02	05
	4	Recitation of the Thekas of Tilwada and Sultala with Dugun, keeping Tala with hand beats	-	02	04
	5	Ability to recognise the prescribed Ragas from the passages of Swaras rendered by the examiner	-	02	04
					<b>Total 35</b>
					<b>Total 50</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT**  
**FIRST TERM (APRIL 2016 - SEPTEMBER 2016)**  
**HINDUSTANI MUSIC (MELODIC INSTRUMENTS) (CODE 035)**

**CLASS: IX**

**Time: 2 hours**

**Total Marks: 50**

**Theory**

**15 Marks**

1. Describe the following: Sangeet Dhvani, Nada, Shruti, Swara, Saptak, Thaata, Raga, Aaroha, Avaroha, Pakad, Laya, Tala, Matra, Sam, Khali, Vibhag and Avartan.
2. Notation system of Pt. V.D. Pulaskar or Pt. V.N. Bhatkhande.
3. Description of the following Ragas: Raga Alhaiya Bilawal, Raga Yaman.
4. Ability to do notation of compositions in prescribed Ragas.
5. Description and ability to do Tala-notation of the following Talas: Keharwa, Teentala, Dadra.

**Practical**

**35 Marks**

1. Aaroha, Avaroha, Pakad and Drut Gat with few Todas in Raga Alhaiya Bilawal and Raga Yaman.
2. Six chalans in each prescribed Raga.
3. Recitation of the Thekas of Keharwa, Dadra Teentala with dugun, keeping Tala with hand beats.
4. Six Tala-baddha Alankaras set to all prescribed Ragas and Talas.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT:  
FIRST TERM (APRIL 2016 - SEPTEMBER 2016)  
HINDUSTANI MUSIC (MELODIC INSTRUMENTS) (CODE 035)  
CLASS: IX**

Time: 2 hours

Total Marks: 50

The Question Paper will be divided into two sections:

Theory - 15 marks

Practical - 35 marks

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Describe the following: Sangeet Dhwani, Nada, Shruti, Swara, Saptak, Thaata, Raga, Aaroha, Avaroha, Pakad Laya, Tala, Matra, Sam, Khali vibhag Avartan	SA	01	03
	2	Description of Raga Alhaiya Bilawal, Raga Yaman	LA	01	03
	3	Description and notation of Talas Keharwa, Teentala, Dadra	LA	01	02
	4	Notation of composition of prescribed Ragas	LA	01	04
	5	Multiple choice questions based on topics 1 and 2	MCQ	06	03
					<b>Total 15</b>
Practical	1	Aaroha, Avaroha, Pakad and Drut Gat with Todas in Raga Alhaiya Bilawal and Raga Yaman	-	02	15
	2	Six chalanis in each prescribed Raga	-	02	06
	3	Recitation of the Thekas of Keharwa, Dadra Teentala with dugun, keeping Tala with hand beats	-	02	08
	4	Six Tala-baddha Alankaras set to all prescribed Ragas and Talas	-	02	06
					<b>Total 35</b>
					<b>Total 50</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT**  
**SECOND TERM (OCTOBER 2016 - MARCH 2017)**  
**HINDUSTANI MUSIC (MELODIC INSTRUMENTS) (CODE 035) CLASS: IX**

**Time: 2 hours**

**Total Marks: 50**

**Theory**

**15 Marks**

1. Definition of the following:  
Vadi, Samvadi, Anuvadi, Vivadi, Jati, Gat, Sthai, Antara, Swarmalika, Lakshan Geet and Khayal. Tala, Matra, Vibhag, Sam, Tali, Khali, Avartan.
2. An outline history of Hindustani Music of modern period with special reference to the works of Pt. Vishnu Narayan Bhatkhande and Pt. Vishnu Digambar Paluskar.
3. Description and Notation of the following Ragas: Bhairav and Kafi.
4. Description and ability to do Tala-notation of the following Talas: Jhaptala and Ektala.

**Practical**

**35 Marks**

1. Aaroha, Avroha, Pakad, and Drut Gat with few Todas in Raga Bhairav and Kafi.
2. Identification of prescribed Ragas from the passages of swaras rendered by the examiner.
3. a) Two dhuns.  
b) Two folk dhuns.
4. Recitation of the Thekas of Jhaptala and Ektala with dugun, keeping Tala with hand beats.
5. Eight Tala-baddha Alankaras set to all prescribed Ragas and Talas.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT  
SECOND TERM (OCTOBER 2016 - MARCH 2017)  
HINDUSTANI MUSIC (MELODIC INSTRUMENTS) (CODE 035)  
CLASS IX**

Time: 2 hours

Total Marks: 50

The Question Paper will be divided into two sections:

Theory - 15 marks

Practical - 35 marks

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	History of Hindutani Music of modern period with special reference to Pt. V.N. Bhatkhande and Pt. V. D. Paluskar	LA	01	04
	2	Definitions - Vadi Samvadi, Anuvadi, Vivadi, JatiGat, Sthai, Antara, Khayal, Swarmalika and Lakshan Geet	SA	01	03
	3	Description and notation of Raga Bhairav and Kafi	LA	02	04
	4	Description and Tala-notation of Jhaptala and Ektala	LA	01	02
	5	Multiple choice questions based on topics 1 and 2	MCQ	04	02
					<b>Total 15</b>
Practical	1	Aaroha, Avroha, Pakad and Drut Gat with few Todas in Raga Kafi and Bhairav	-	02	12
	2	a) Two dhuns b) Two folk dhuns	-	02	08
	3	Recite Thekas of Jhaptala, Ektala with dugun, keeping Tala with hand beats	-	02	06
	4	Identification of prescribed Ragas from the passages of swaras rendered by the examiner	-	02	05
	5	Eight Tala-baddha Alankaras set to all prescribed Ragas and Talas	-	02	04
					<b>Total 35</b>
					<b>Total 50</b>



**SYLLABUS FOR SUMMATIVE ASSESSMENT  
FIRST TERM (APRIL 2016 - SEPTEMBER 2016)  
HINDUSTANI MUSIC (MELODIC INSTRUMENTS) (CODE 035)**

**CLASS: X**

**Time: 2 hours**

**Total Marks: 50**

**Theory**

**15 Marks**

1. Describe the following: Aalap, Tana, Dhrupad, Dhamar, Thumri, Masitkhani Gat, Razakhani Gat, Lok Dhun.
2. Description of Raga Bhupali and Khamaj.
3. Basic Knowledge of the structure and tuning of any one the following instruments:
  - (i) Sitar (v) Flute
  - (ii) Sarod (vi) Mandolin
  - (iii) Violin (vii) Guitar
  - (iv) Dilruba or Esraj
4. Description and ability to do Tala-notation of chautala and Rupak.
5. Ability to do notation of prescribed Ragas.

**Practical**

**35 Marks**

1. One Maseet Khani Gat with simple Todas in any one prescribed Ragas.
2. Aaroha, Avroha, Pakad and Drut gat with Tanas and Jhala in Raga Bhupali and Raga Khamaj.
3. (a) One Dhun  
(b) One Folk Dhun
4. Recitation of the Thekas of Chautala and Rupak with Dugan, keeping Tala with hand beats.
5. Ability to recognise the prescribed Ragas from the passages of swaras rendered by the examiner.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT:  
FIRST TERM (APRIL 2016 - SEPTEMBER 2016)  
HINDUSTANI MUSIC (MELODIC INSTRUMENTS) (CODE 035) CLASS: X**

Time: 2 hours

Total Marks: 50

The Question Paper will be divided into two sections:

Theory - 15 marks

Practical - 35 marks

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Describe: Aalap, Tana, Dhrupad, Dhamar, Thumri Masitkhani Gat, Razakhani Gat, Lok Dhun.	LA	02	04
	2	Knowledge of structure and tuning of the instrument opted for	LA	01	02
	3	Brief description and notation of Raga Bhupali and Khamaj	LA	02	04
	4	Description and Tala-notation of chautala and Rupak	SA	01	02
	5	Multiple choice questions based on topics 1 to 4	MCQ	03	03
					<b>Total 15</b>
Practical	1	Aaroha, Avroha, Pakad and Maseet khani Gat with Simple Todas in any Prescribed Ragas	-	01	10
	2	Aaroha, Avroha, Pakad and Drut Gat with simple elaborations and few Tanas in Raga Khamaj and Bhupali	-	02	12
	3	One dhun and one folk dhun	-	02	04
	4	Recitation of Thekas of Chautala and Rupak with dugun, keeping Tala with hand beats	-	02	06
	5	Ability to recognise Ragas from the passages of swaras rendered by the examiner	-	02	03
					<b>Total 35</b>
					<b>Total 50</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT**  
**SECOND TERM (OCTOBER 2016 - MARCH 2017)**  
**HINDUSTANI MUSIC (MELODIC INSTRUMENTS) (CODE 035)**  
**CLASS: X**

**Time: 2 hours**

**Total Marks: 50**

**Theory**

**15 Marks**

1. Origin and development of the Instrument opted for.
2. Definition of the following:  
Meend, Kan, Khatka, Murki
3. Brief life sketch of Miyan TansenUstad Allauddin Khan, Inayat Khan
4. Description and Tala-notation of Tilwada and Sultala.
5. Description of Raga Des and Durga.
6. Ability to do notation of prescribed Ragas.

**Practical**

**35 Marks**

1. One Maseetkhani Gat with Todas in any one prescribed Rag as.
2. Aaroha, Avroha, Pakad and Drut gat with Tana and Jhala in Ragas and Durga.
3. a) National Anthem  
b) Two Dhuns  
c) Two Folk Dhuns
4. Recitation of the Thekas of Tilwada and Sultala with dugan, keepingTala with hand beats.
5. Ability to recognise prescribed Raga from the passages of swaras rendered by the examiner.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT:  
SECOND TERM (OCTOBER 2016 - MARCH 2017)  
HINDUSTANI MUSIC (MELODIC INSTRUMENTS) (CODE 035)  
CLASS: X**

Time: 2 hours

Total Marks: 50

The Question Paper will be divided into two sections:

Theory - 15 marks

Practical - 35 marks

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Origin and development of the Instrument opted for	LA	01	03
	2	Definition of Meend, Kan, Khatka, Murki	SA	02	02
	3	Brief life sketch of Miyan Tansen and Ustad Allauddin Khan, Inayat Khan	LA	01	03
	4	Description and notation of Raga Des and Durga	LA	01	03
	5	Description and Tala-notation of Tilwada and Sultala	SA	01	02
	6	Multiple choice questions based on topics 1 to 5	MCQ	04	02
					<b>Total 15</b>
Practical	1	Aaroha, Avroha, Pakad and Maseetkhani Gat with SimpleTodas in any Prescribed Ragas	-	01	10
	2	Aaroha, Avroha, Pakad and Drut Gat with simple elaborations and fewTanas in Raga Bhimpalasi and Des	-	02	10
	3	a) National Anthem b) Two Dhuns c) Two Folk Dhuns	-	03	06
	4	Recitation of theka of Tilwada and Sultala with dugun, keeping Tala with hand beats.	-	02	06
	5	Ability to recognise prescribed Ragas from the passages of swaras rendered by the examiner	-	02	03
					<b>Total 35</b>
					<b>Total 50</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT**  
**FIRST TERM (APRIL 2016 - SEPTEMBER 2016)**  
**HINDUSTANI MUSIC (PERCUSSION INSTRUMENTS) (CODE 036)**  
**CLASS: IX**

**Time: 2 hours**

**Total Marks: 50**

**Theory**

**15 Marks**

1. Short notes on the following terms:  
Tala, laya, Matra, Vibhag, Sam, Tali, Khali, Avartan Theka, Kayada or Rela, Palta, Tihai and Chakradar and Tukra,
2. Basic knowledge of your Instruments (Tabla or Pakhawaj), its structure and its structure and its various parts
3. Notation system of Pt. V.D. Pulaskar Or Pt. V.N. Bhatkhande.
4. Description and ability to do Tal Notation with Thalh and Dugun Laya in Teental, Keharwa and Dadra.
5. Notation of two Kaydas in Teentala with four Paltas, Tihai and two tukras in any Talanotaion System.

**Practical**

**35 Marks**

1. Knowledge of basic techniques and bols of Tabla or Pakhawaj and ability to do combinations of syllables.
2. Ability to play four kayadas with four Paltas and Tihai in Teental
3. Ability to play two simple and one Chakradar Tukra in Teental
4. Ability to play Thekas of Teentala, Keharwa and Dadra with two simple variation in Thah and Dugun laya.
5. Ability to recite Theka with Thah and Dugun of Teentala, Keharwa and Dadra with hand beats.
6. Solo performance at least five minutes in Teentala.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT:  
FIRST TERM (APRIL 2016 - SEPTEMBER 2016)  
HINDUSTANI MUSIC (PERCUSSION INSTRUMENTS) (CODE 036)  
CLASS: IX**

Time: 2 hours

Total Marks: 50

The Question Paper will be divided into two sections:

Theory - 15 marks

Practical - 35 marks

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Basic knowledge of your Instrument structure and its various parts	LA	01	02
	2	Notation in Teentala of Kayda Palta, Tihai, Tukra and Chakradar	LA	01	04
	3	Knowledge of the notation system of Pt. V. N. Bhatkhande or Pt. V.D. pulaskar and notation of Prescribed Talas	LA	02	04
	4	Short notes on Tala, Laya, Tali, Khali, Matra, Vibhag, Avartan, Kayada or Rela, Palta, Tihai Chakradar Tukra	SA	02	02
	5	Multiple choice question based on topics 1 to 4	MCQ	06	03
					<b>Total 15</b>
Practical	1	Knowledge of basic techniques and bols of Tabla or Pakhawaj and ability to play Kayada Rela, Tukra, Chakradar	-	01	10
	2	Ability to play two Kaydas in Teentala with four paltas and one Tihai	-	01	10
	3	Ability to play two simple Tukras and Theka of Teentala, Keharwa and Dadra and on hand with simple elaborations in Thahand Dugun Laya	-	01	08
	4	Ability to perform solo performance for 5-10 minutes in Teental	-	01	07
					<b>Total 35</b>
					<b>Total 50</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT**  
**SECOND TERM (OCTOBER 2016 - MARCH 2017)**  
**HINDUSTANI MUSIC (PERCUSSION INSTRUMENTS) (CODE 036) CLASS: IX**

**Time: 2 hours**

**Total Marks: 50**

**Theory**

**15 Marks**

1. Definition of the following: Rela, Chakradar, Paran, Mukhra
2. Elementary knowledge of the origin of Tabla or Pakhawaj
3. Ability to write Rela, Chakradar, Paran and Mukhra in Tala Notation System
4. Description and ability to do Tala Notation of Jhaptala, Ektala and Teentala.
5. Elementary Knowledge of Salient features of various gharanas of Tabla or Pakhawaj
6. An outline History of Hindustani Music of modern period with special reference to the works of Pt. V.D. Bhaskhande and Pt. V.D. Pulaskar

**Practical**

**35 Marks**

1. Ability to recite thekas of Jhaptala and Ektala with Thah, Dugan Chaugan in hand beats.
2. Ability to play one Kayda in Jhaptala with four Paltas and one Tihai.
3. Ability to play two simple Tukras and one Damdar tihai in Jhaptal.
4. Ability to play two advance Kayadas one Rela, two Chakrdar Tukras, one Bedam Tihai in Teentala.
5. Solo performance at least 5-10 minutes and knowledge of accompaniment.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT  
SECOND TERM (OCTOBER 2016 - MARCH 2017)  
HINDUSTANI MUSIC (PERCUSSION INSTRUMENTS) (CODE036) CLASS: IX**

Time: 2 hours

Total Marks: 50

The Question Paper will be divided into two sections:

Theory - 15 marks

Practical - 35 marks

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Origin of Tabla or Pakhawaj	LA	01	03
	2	Definition of the following: Rela, Chakradar, Paran and Mukhra	SA	03	03
	3	Ability to write the Thekas of Jhap-tala, Ektala, in Thah, Dugun and Chaugun Laya	LA	01	03
	4	Salient features of various Gharanas of Tabla or Pakhawaj	LA	01	03
	5	Multiple choice question based on topics 1 to 4	MCQ	06	03
					<b>Total 15</b>
Practical	1	Four Kaydas in Teentala with four Paltas and one Tihai, two Chakradar Tukras and one DamdarTihai	-	01	10
	2	Ability to play Thekas of Jhaptala, Ektala in Thah, Dugun and Chaugun laya with some variations and Kayada, Palta, Tihai in Jhaptal	-	02	10
	3	Ability to recite Kayada, Thekas and Tukras with hand beats	-	01	05
	4	Solo performance and accompaniment	-	02	10
					<b>Total 35</b>
					<b>Total 50</b>



**SYLLABUS FOR SUMMATIVE ASSESSMENT**  
**FIRST TERM (APRIL 2016 - SEPTEMBER 2016)**  
**HINDUSTANI MUSIC (PERCUSSION INSTRUMENTS) (CODE 036)**  
**CLASS: X**

**Time: 2 hours**

**Total Marks: 50**

**Theory**

**15 Marks**

1. Define the following:  
Farmaishi Chakradar, Gat and its varieties, Laggi - Larri.
2. Brief Study of Delhi and Ajrada Gharanas of Tabla or Kudau Singh Gharana of Pakhawaj.
3. Study of Tripushkar vadya for special reference to Natyashastra.
4. Ability to write: Kayda, Tukra Farmaishi Chakradar and Gat in Jhaptala and Teentala with notation.
5. Ability to write the Kayda in Ektala with notation.

**Practical**

**35 Marks**

1. Ability to Play:
  - a) Two Kaydas in Ektala with four Paltas and Tihai.
  - b) Two Chakradar Tukras and one Simple Tihai in Ektala.
  - c) Two laggi in Keharwas and one in Dadra Tala.
2. Ability to play two Kaydas and One Chakradar Tukra in Jhaptala
3. One Adalaya Kayda, Two advance Kaydas, One Farmaishi Chakradar and one Gat in Teentala.
4. Ability to do accompaniment with Bhajan and Geet.
5. Solo performance with Lehara at least 10-15 Minutes.

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT  
FIRST TERM (APRIL 2016 - SEPTEMBER 2016)  
HINDUSTANI MUSIC (PERCUSSION INSTRUMENTS) (CODE 036) CLASS: X**

Time: 2 hours

Total Marks: 50

The Question Paper will be divided into two sections:

Theory - 15 marks

Practical - 35 marks

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Short note on Tripushkar vadya special reference to Natyashastra	SA	01	02
	2	Brief Knowledge of Delhi and Ajrada Gharanas of Tabla Kudau Singh Gharana of Pak-hawaj	LA	01	04
	3	Ability to write the Kayda or Rela, Palta, Tihai Tukra; Farmaishi Chakradarand Gat in Tal Notation in Teental	LA	01	04
	4	Write Kayada and Tukra in Jhaptala and Ektala in Tala tal Notation	LA	01	03
	5	MCQ based on 1 - 3	MCQ	04	02
					<b>Total 15</b>
Practical	1	Two Kaydas, One Chakradar Tukra in Jhaptala, One Adalaya Kayda, two advance Kaydas, one Farmaichi Chakradar and one Gat in Teental	-	01	10
	2	Ability to play Kayada and Tukra in Ektala	-	01	06
	3	Ability to recite the Thekas of Jhaptal and Ektala with Thah, Dugun and Chaugun Laya	-	01	06
	4	Two Laggi-Larri in Dadra and Keharwa	-	02	03
	5	Solo performance at least 10-15 minutes and accompaniment with vocal	-	02	10
					<b>Total 35</b>
					<b>Total 50</b>

**HINDUSTANI MUSIC (PERCUSSION INSTRUMENTS)**  
**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT**  
**SECOND TERM (OCTOBER 2016 - MARCH 2017)**  
**CLASS: X(CODE 036)**

Time: 2 hours

Total Marks: 50

The Question Paper will be divided into two sections:

Theory - 15 marks

Practical - 35 marks

Section	Details of Topics/ Sections		Types of Questions	No. of questions	Marks
Theory	1	Development of Tabla or Pakhawaj	LA	01	03
	2	Write short notes on Farukhabat and Lucknow Gharanas of Tabla or Nanaparse gharana of Pakhawaj	LA	01	04
	3	Short notes on Graha, Marg, Kriya	SA	02	02
	4	Write one Kayada in Teentala of Delhi Gharana in Tal Notation	LA	01	03
	5	MCQ based on 1 - 4	MCQ	06	03
					<b>Total 15</b>
Practical	1	Ability to play four Advance Kayadas with Paltas, Tihai and Chakradar in Teentala	-	01	10
	2	Ability to play Kayada, Palta, Tihai and Chakradar in Jhaptala and Ektala	-	02	10
	3	Ability to play varieties of Thekas of Jhaptala, Rupak, Ek tala and teen tal	-	01	05
	4	Solo Performance in teental with Lehra for 10-15 minutes and 5 minutes in Jhaptal	-	02	10
					<b>Total 35</b>
					<b>Total 50</b>

**SUGGESTED GUIDELINES/ACTIVITIES FOR CONDUCTING PRACTICALS**  
**1. HINDUSTANI MUSIC VOCAL (CODE 034)**

**CLASS-IX: FIRST TERM**

**Class work:**

1. Identification of basic sware.
2. Teaching of Alankaras set to different Talas. (1 to 6)
3. Teaching of Raga Alhaiya Bilawal and Raga Kafi with Aaroha, Avroha, Pakad, Swarmalika, lakshan geet Drut Khayal with few tanas.
4. Teaching of Tala Keharwa, Dadra, Teentala
5. (i) National Anthem  
(ii) One folk or Tribal song  
(iii) One Devotional song  
(iv) One Patriotic song  
(v) One Community song

**Homework:** Regular practice of syllabus covered in the class and ability to reproduce it the next day.

**Project work:** Preparation of a File for Project work which should include the following:

1. Noting down of:
  - (a) National Anthem
  - (b) One folk or Tribal song
  - (c) One Devotional song
  - (d) One Patriotic song
  - (e) One Community song
2. Aaroha, Avroha, Pakad Swarmalika Lakshan geet and Drut Khayal in Raga Alhaiya Bilawal and Raga Kafi with few tanas.
3. Noting down of Tala Keharwa, Dadra, Teentala
4. Pasting Prominent Vocal Artists' photographs.

**Class IX: Second Term**

**Class work:**

1. Teaching of Raga Yaman and Bhairav with Aaroha, Avroha, Pakad, Swarmalika, Lakshangeet and Drut Khayal with few tanas.
2. Teaching of Jhaptala and Ektala with hand beats with Dugun.
3. (i) National Song - Vande Matram

- (ii) One Folk or Tribal song
- (iii) One devotional song
- (iv) One Patriotic and one Community song

4. Teaching of six Alankaras set to prescribed Ragas and Talas.

**Homework:** Regular practice of syllabus covered in the class and ability to produce it the next day.

**Project work:**

- 1. Noting down of Aaroha, Avroha, Pakad, Swarmalika, Lakshangeet and Drut Khayalin Raga Yama and Bhaurav with few tanas.
- 2. Noting down of Jhaptala and Ektala.
- 3. Noting down of Folk or Tribal songs, devotional songs, patriotic songs and community songs that are taught in the class.

**Class X - First Term**

**Class work:**

- 1. Recitation of Alankaras
- 2. Aaroha, Avroha and Pakad of Ragas being taught.
- 3. Drut Khayal with simple elaborations and few tanas in Raga Bhupali and Khamaj.
- 4. Noting down of Notation of DrutKhayal of Raga Bhupali and Khamaj.
- 5. Encouraging individual performance.

**Home work:** Regular practice of syllabus covered in the class and ability to reproduce it the next day.

**Project work:** Preparing a file which should include the following:

- 1. One regional song
- 2. Pasting the pictures of prominent musicians and vocalists.
- 3. Sketching of Tanpura and labeling its different parts.
- 4. Writing of notation of Drut Khayalin Raga Bhupali and Khamaj.

**Class X - Second Term**

**Class work:**

- 1. Recitation of Alankars
- 2. Aaroha, Avroha Pakad, Swarmalika, Lakshangeet of Ragas being taught.
- 3. Drut Khayal with simple elaborations and few tanas in Raga Des and Bhimpalasi.
- 4. Writing of Notation of Drut Khayal of Raga Des and Bhimpalasi.
- 5. Encouraging individual performance.

**Homework:** Regular practice of syllabus covered in the class and ability to reproduce it the next day.

**Project work:** Preparation of a file which should include the following:

1. One regional song
2. Pasting the pictures of prominent musicians and vocalists.
3. Sketchs of Tanpura and labeling its different parts.
4. Write of notation of Drut Khayal of Raga Des and Bhimpalasi
5. One folk song

## **SUGGESTED GUIDELINES/ACTIVITIES FOR CONDUCTING PRACTICALS**

### **2. HINDUSTANI MUSIC (MELODIC INSTRUMENTS) (CODE 034)**

#### **CLASS-IX: FIRST TERM**

##### **Class work:**

1. Teaching six Tala-baddha Alankaras set to prescribed Ragas and Talas.
2. Teaching of Raga Alhaiya Bilawal and Raga Kafi with Aaroha, Avroha, Pakad, Drut Gat with few Todas.
3. Teaching of six chalans in each prescribed Ragas.
4. Teaching of technical terms with illustrations wherever possible.
5. Noting down of Gat and Talas in notation system.
6. Teaching of Tala Keharwa, Dadra and Teentala.

**Homework:** Regular practice of syllabus covered in the class and ability to reproduce it the next day.

**Project work:** Preparation of a file for Project work which should include the following:

1. Noting down of six Tala-baddha Alankaras.
2. Noting down Aaroha, Avroha, Pakad and Drut Gat in Raga Alhaiya Bilawal and Raga Kafi with few Todas.
3. Noting down of Tala Keharwa, Dadra and Teentala.
4. Pasting pictures of prominent Instrumental artists.

#### **Class IX - Second Term**

##### **Class work:**

1. Teaching of Raga Yaman and Bhairav with Aaroha, Avroha, Pakad and Drut Gat with few Todas.
2. Teaching of six Tala-baddha Alankaras set to prescribed Ragas and Talas.
3. Teaching of two dhuns and two folk dhuns.
4. Teaching of Jhaptala and Ektala with hand beats.
5. Encouraging individual performance.

6. Teaching of technical terms with illustrations wherever possible.

**Homework:** Regular practice of the syllabus covered in the class and ability to reproduce it the next day.

**Project work:** Preparation of a file for Project work which should include the following:

1. Noting down of two Dhuns and two Folk Dhuns.
2. Noting down Aaroaha, Avroha, Pakad and Drut Gatin Raga Yaman and Bhairav with few Todas.
3. Noting down of Jhaptala and Ektala.
4. Noting down of six Tala-baddha Alankaras.

**Class X - First term**

**Class work:**

1. Recitation of Alankaras.
2. Aaroaha, Avroha and Pakad of Ragas being taught.
3. Drut Gat with simple elaborations and few Todas in Raga Bhupali and Khamaj.
4. Noting down of Drut Gats of Raga Bhupali and Raga Khamaj.
5. Encouraging individual performance.
6. Teaching of technical terms with illustrations wherever possible.

**Homework:** Regular practice of the syllabus covered in the class and ability to reproduce it the next day.

**Project work:** Preparation of a file for Project work which should include the writing of:

1. Four Tala-baddha Alankaras.
2. Writing of Aaroaha, Avroha, Pakad and Drut Gatin Raga Bhupali and Raga Khamaj with few Todas.
3. Pasting the pictures of various string instruments.

**Class X - Second term**

**Class work:**

1. Recitation of Alankaras.
2. Aaroaha, Avroha and Pakad of Raga being taught.
3. Drut Gatin Raga Des and Bhimpalasi.
4. Noting down of Drut Gat of Raga Des.
5. Encouraging individual performance.

**Homework:** Regular practice of the syllabus covered in the class and ability to reproduce it the next day.

**Project work:** Preparation of a file for Project work which should include the writing of:

1. Four Tala baddha Alankaras.

2. Aaroha, Avroha, Pakadand Drut Gat in Raga Bhimpalasi and Desh with few tanas.
3. Theka of Tilwada and Sultala with Dugun.
4. Sketching and labelling the various parts of the instrument opted for.

**SUGGESTED GUIDELINES/ACTIVITIES FOR CONDUCTING PRACTICALS**  
**3. HINDUSTANI MUSIC (PERCUSSION INSTRUMENTS) (CODE 036)**

**CLASS-IX: FIRST TERM**

**Class work:**

1. Teaching the basic techniques of playing basic Bols on Tabla or Pakhawaj.
2. Teaching the technique of tuning the Instrument.
3. Teaching Kayda, Tukra, Chakradar and Theka of mention subject.
4. Recite the Thekas, Kayada, Tukra, with hand beats.
5. Encouraging individual performance.

**Home work:** Regular practice of syllabus covered in the class and ability to reproduce it the next day.

**Project work:** Preparation of a file for Project work which should include the following:

1. Sketching your own Instrument in details .
2. Pasting the pictures of various percussion Instruments.
3. Sketching of various parts of Tabla or Pakhawaj with singal (dayan bayan) and con-joint syllables.
4. Noting down of Kayada, Tukra, Chakradar, Tihai in various Talas of syllabus.
5. Pasting the photographs of prominent artists of Percussion Instruments.
6. Listening classical, semi classical music and describe in details.

**Class IX - Second term**

**Class work:**

1. Play all Thekas of syllabus with simple elaborations.
2. Recite the all Kayada, Tukra, Tihai and The ka with hand beats.
3. Encouraging individual performance.

**Home work:** Regular practice of syllabus covered in the class and ability to produce it the next day.

**Project work:** Project work to continue with the following additions: Generation tree of Tabla Gharanas.

**Class X - First Term**

**Class work:**



1. Teaching the techniques of playing basic Bols on Tabla or Pakhawaj.
2. Tuning of the Instrument opted for.
3. Theka of Jhaptala and Kayada with simple elaborations on Tabla or Pakhawaj.
4. Recitation of Theka and Kayada of Jhaptala with hand beats.
5. Encouraging individual performance.

**Home work** - Regular practice of syllabus covered in the class and ability to reproduce it the next day.

**Projectwork:** Preparation of a project File which should include the following:

1. Noting down of Jhaptala Kayada.
2. Basic Bols of Tabla or Pakhawaj .
3. Paste the pictures of Tabla, Pakhawaj, Dholak, Naal and Nakkara.
4. Sketeching of the parts of Tabla and Pakhawaj with Syllabus.

**Class X - Second Term**

**Class work:**

1. Teaching the techniques of produce good sound own instrument.
2. Tuning of the instrument opted for.
3. Theka and Kayada of Ektala with simple elaborationson the instrument opted for.
4. Recitation of Kayada, Tukra and Thekas of Ektala with hand beats.
5. Encouraging individual performance.

**Home work:** Regular practice of syllabus covered in the class and ability to reproduce it the next day.

**Project work:** Preparing a project File which should include the following:

1. Noting of Teentala Rupak, Jhaptala, Ektala, Keharwa and Dadra.
2. Noting of Kayda in mention syllabus .
3. Paste the pictures of prominent artists.
4. Sketching of Tripushkar Vadya (According to Natyashastra)

**(B) PAINTING (CODE NO. 049)**  
**THE WEIGHTAGE FOR FORMATIVE ASSESSMENT (FA) AND SUMMATIVE**  
**ASSESSMENT (SA) SHALL BE AS FOLLOWS**  
**FOR CLASSES IX & X**  
**FOR I & II TERMS**

	I		II		III		IV	Total
Formative Assessment I	10%	+	10%	+	10%	+	10%	40%
Summative Assessment	30%	+	30%					60%
<b>Total</b>								<b>100%</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT-I**  
**FIRST TERM (APRIL 2016- SEPTEMBER 2016)**  
**(No theory paper)**  
**CLASS - IX**

**Time: 3hrs.**

**Marks: 60**

**Learning Outcomes/Objectives**

**Students opt painting as an additional subject are able to:**

- communicate ideas and thoughts.
- understand of basic principles of design and color, concepts, media and formats, and the ability to apply them to a specific aesthetic intent.
- get functional knowledge of the traditions, conventions, and evolutions of the discipline as related to issues of representation, illusion, and meaning.
- get the knowledge and skills in the use of basic tools and techniques sufficient to work from concept to finished product.
- learn to use real materials in active ways, asking and answering questions, figuring things out (using scientific inquiry), and solving problems about position and motion.
- prepare for future course in painting.

Free hand sketching from memory, objects and life.

Birds, Animals, Human figure, Flowers, Trees, Cities, Monuments, etc.

**Project Work (Any two) - Formative Assessment (FA)**

Knowledge of Earth colours and Indian Tradition/occasions (Folk Art)

- Rangoli making
- Paper Collage (Newspaper/magazine)
- Print making
- Landscape

### Marking Scheme

Compositional arrangement including emphasis on the subject

(a)	Drawing (Composition)	24 marks
(b)	Treatment of Media (colours)	18 marks
(c)	Originality, creativity and overall impression	18 marks
	Total	60 marks

## EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT I FIRST TERM (APRIL 2016 - SEPTEMBER 2016) (No theory paper) CLASS - IX

Time: 3hrs.

Marks: 60

### Project Work (Any two)

- Rangoli making
- Paper Collage (Newspaper/magazine)
- Print making
- Landscape

### Marking Scheme

Compositional arrangement including emphasis on the subject

(a)	Drawing (Composition)	24 marks
(b)	Treatment of Media (colours)	18 marks
(c)	Originality, creativity and overall impression	18 marks
	Total	60 marks

(Since no theory paper, 30% weightage will be taken for final.) = 30+10+10=50 marks

First Term (April - Sept.)	Formative Assessment 1	10%	20%
	Formative Assessment 2	10%	
	Summative Assessment 1	30%	30%
<b>Total</b>			<b>50%</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT-II**  
**SECOND TERM (OCTOBER 2016 - MARCH 2017)**  
**(No theory paper)**  
**CLASS: IX**

Time: 3hrs.

Marks: 60

**1. Still life (Object Drawing)**

(Study of objects, shapes, fruits, vegetables etc.) in any medium (water/term-  
pra/pested etc.)

**2. Project Work (Any two) - Formative Assessment (FA)**

Individual/ Group Activities

(i) Greeting Card

(ii) Sketches with Pencil/Colour

**Marking Scheme**

Compositional arrangement including emphasis on the subject

(a)	Drawing (Composition)	24 marks
(b)	Treatment of Media (colours)	18 marks
(c)	Originality, creativity and overall im- pression	18 marks
	<b>Total</b>	<b>60 marks</b>

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT II**  
**SECOND TERM (OCTOBER 2016 - MARCH 2017)**  
**(No theory paper)**  
**CLASS - IX**

Time: 3hrs.

Marks: 60

**Project Work (Any two) - Formative Assessment (FA)**

Individual/ Group Activities

(i) Greeting Card

(ii) Sketches with Pencil/Colour

## Marking Scheme

Compositional arrangement including emphasis on the subject

(a)	Drawing (Composition)	24 marks
(b)	Treatment of Media (colours)	18 marks
(c)	Originality, creativity and overall impression	18 marks
	<b>Total</b>	<b>60 marks</b>

(Since no theory paper, 30% weightage will be taken for final.) = 30+10+10=50 marks

First Term (April - Sept.)	Formative Assessment 3	10%	20%
	Formative Assessment 4	10%	
	Summative Assessment 2	30%	30%
<b>Total</b>			<b>50%</b>

## SYLLABUS FOR SUMMATIVE ASSESSMENT-I FIRST TERM (APRIL 2016 - SEPTEMBER 2016) CLASS - X

Time: 3hrs.

Marks: 60

### Learning Outcomes/Objectives

Students who take painting and drawing as an additional subject are able to:

- communicate ideas and thoughts
- understand of basic principles of design and color, concepts, media and formats, and the ability to apply them to a specific aesthetic intent.
- get functional knowledge of the traditions, conventions, and evolutions of the discipline as related to issues of representation, illusion, and meaning.
- get the knowledge and skills in the use of basic tools and techniques sufficient to work from concept to finished product.
- learn to use real materials in active ways, asking and answering questions, figuring things out (using scientific inquiry), and solving problems about position and motion.
- prepare for future course of study in painting

#### 1. Painting Composition from memory:

Simple compositions in any medium (water/tempera/pastel etc.) on given subject based on sketching from life and nature.

Subjects covering family, school, regional, national and international problems/ events/celebration/festivals etc.

**Project Work** (Any two of these)

Individual/Group Activities

1. Folk Art (Rangoli, Alpana)
2. Five sketches (in a week)

**Marking Scheme**

Compositional arrangement including emphasis on the subject

(a)	Drawing (Composition)	24 marks
(b)	Treatment of Media (colours)	18 marks
(c)	Originality, creativity and overall impression	18 marks
	<b>Total</b>	<b>60 marks</b>

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT I  
FIRST TERM (APRIL 2016 - SEPTEMBER 2016)  
(No theory paper) CLASS: X**

**Time: 3hrs.**

**Marks: 60**

**Project Work**

Individual/Group Activities

1. Folk Art (Rangoli, Alpana)
2. Five sketches in a week

**Marking Scheme**

Compositional arrangement including emphasis on the subject

(a)	Drawing (Composition)	24 marks
(b)	Treatment of Media (colours)	18 marks
(c)	Originality, creativity and overall impression	18 marks
	<b>Total</b>	<b>60 marks</b>

(Since no theory paper, 30% weightage will be taken for final.) = 30+10+10=50 marks

First Term (April. - Sept.)	Formative Assessment 1	10%	20%
	Formative Assessment 2	10%	
	Summative Assessment 1	30%	30%
<b>Total</b>			<b>50%</b>

**SYLLABUS FOR SUMMATIVE ASSESSMENT-II  
SECOND TERM (OCTOBER 2016 - MARCH 2017) CLASS - X**

Time: 3hrs.

Marks: 60

Painting Composition for memory :

Project Work (Any of the following):

**Group Activities**

- (1) Folk Art (Rangoli, Alpna)
- (2) Five Sketches in a week

**Marking Scheme**

Compositional arrangement including emphasis on the subject

(a)	Drawing (Composition)	24 marks
(b)	Treatment of Media (colours)	18 marks
(c)	Originality, creativity and overall impression	18 marks
<b>Total</b>		<b>60 marks</b>

**EXAMINATION STRUCTURE FOR SUMMATIVE ASSESSMENT II  
SECOND TERM (OCTOBER 2016 - MARCH 2017) CLASS: X**

Time: 3hrs.

Marks: 60

Project Work (Any of the following)

**Group Activities**

- (1) Folk Art (Rangoli, Alpna)
- (2) Five Sketches in a week

**Marking Scheme**

Compositional arrangement including emphasis on the subject

(a)	Drawing (Composition)	24 marks
(b)	Treatment of Media (colours)	18 marks
(c)	Originality, creativity and overall impression	18 marks
<b>Total</b>		<b>60 marks</b>

(Since no theory paper, 30% weightage will be taken for final.) = 30+10+10=50 marks

Second Term (Oct. - March)	Formative Assessment 3	10%	20%
	Formative Assessment 4	10%	
	Summative Assessment 4	30%	30%
<b>Total</b>			<b>50%</b>

## Guidelines for Summative and Formative Assessment Painting (Code No. 049) for Class IX & X April to March

Time: 3hrs.

Marks: 60

### (a) For Summative Assessment

Painting composition: Study of forms from life and nature such as human figures, birds, animals, rivers, mountains and scenes of day-to-day common life in colours with lights and shade.

### (b) For Formative Assessment:

#### 1. Project Work

Compositional arrangement of forms from life and nature covering day-to-day life in colours (water/pastel/poster).

- a) Compositional arrangement with emphasis on the subject matter.
- b) Treatment of Media (colours)
- c) Originality, creativity and overall impression

#### 2. Home Work

#### 3. Class Work

### GUIDELINES FOR CLASS IX and X

#### PAINTING (CODE NO. 049)

This section provides some basic guidelines for the teachers and students to take up the projects in Painting. It is very necessary to interact, support, guide, facilitate and encourage students while assigning projects to them.



The teachers must ensure that the project work assigned to the students whether individually or in-group are discussed at different stages right from assigning topic to drafts review to finalization. Students should be facilitated in terms of selection of relevant materials, suggesting websites. The teachers must ensure that the students should submit original work. Project report may be a hand written /original painting work of a student. (Eco-friendly materials can be used by students.)

**The following steps may be followed:**

1. Teacher should design/prepare a list of 10-15 projects and should give an option to students to choose their project as per the convenience of the student.
2. The project can be done in a group or individually.
3. The topic should be assigned after discussion with the students in the class to avoid repetition and should then be discussed at every stage of submission of the draft/ final project work.
4. The teacher should play the role of a facilitator and should closely supervise the process of project completion and should guide the children by providing necessary inputs, resources, etc. and should enrich the subject content.
5. The project work for each term can culminate in the form of Powerpoint Presentation/ART Exhibition/paper presentation and so on.
6. Students can use appropriate sources available within neighbourhood.

Suggested topics in class IX	Suggested topics in class X
Rangoli making	Individual/ Group Activities
Paper Collage (Newspaper/magazine)	i) Greeting Card
Print making	ii) Sketches with Pencil/Colour
Landscape	

**ASSESSMENT RUBRICS FOR FORMATIVE ASSESSMENT**

The Marks will be all allocated under the following heads:

1	Compositional arrangement including emphasis on the subject	5 Marks
2	Treatment of Media (colours)	3 Marks
3	Originality, creativity and overall appeal impression	2 Marks
	<b>Total</b>	<b>10 marks</b>

**(D) HOME SCIENCE (IX and X)**  
**(CODE NO. 064)**

**General Instructions**

1. The units specified for each term shall be assessed through both Formative and Summative Assessments.
2. In each term, there will be two Formative Assessments, each carrying 10% weightage.
3. The Summative Assessment in the I term will carry 30% weightage and the Summative Assessment in the II term will carry 30% weightage. (equal distribution)
4. Hands-on practical skills and projects may necessarily be assessed through formative assessments. (10 marks are allotted in each term for practical included in 90 marks to total.

**COURSE STRUCTURE**  
**CLASS IX (2016-2017)**

<b>First Term</b>	<b>Theory 80 Marks</b>
<b>3 Hours</b>	<b>Practical 10 Marks</b>
<b>Formative</b>	<b>10 Marks</b>
	<b>100 Marks</b>

Units	Topics	Periods	No. of Marks
I	Concept and Scope of Home Science Education and recent trends	05	08
II	Human Growth and Development	10	10
III	Family - a Unit of Society	17	10
IV	Food, Nutrition and Health	25	20
V	Fibre and Fabric	20	17
VI	Resource Management; Community Development	13 (10+3)	15 (10+5)
	Practical	20	10
	<b>Grand Total</b>	<b>110</b>	<b>90</b>

**Unit I: Concept and Scope of Home Science Education and Recent Trends    05 periods**

- a) Introduction to five streams of Home Science.
- b) Relevance of study of Home Science and career options.
- c) Recent trends

**Unit II: Human Growth and Development** **10 periods**

- a) Concept of growth and development
- b) Principles of growth and development

**Unit III: Family - A Unit of Society** **17 periods**

- a) Concept and types of family
- b) Role of family in:
  - Holistic development of an individual
  - Development of value based society
  - Importance of girl child
- c) Influence of various factors on a family: Globalisation, urbanisation, migration, technology and media.

**Unit IV: Food, Nutrition and Health** **25 periods**

- a) Definition of food, nutrition, nutrient, balanced diet and health (WHO)
- b) Food and its functions (physiological, social and psychological)
- c) Relationship of food and health
- d) Eating disorders: Special emphasis on lifestyle problems- Anorexia, bulimia, obesity and their consequences.

**Unit V: Fibre and Fabric** **20 periods**

- a) Definition of fibre and yarn.
- b) Classification of fibre on the basis of origin and length.
- c) Characteristics of fibres- feel, appearance, colour fastness, length, strength, absorbency, shrinkage, elasticity, effect of heat and sunlight.
- d) Methods of construction of fabrics -brief description of weaving, knitting and felting.

**Unit VI: Resource Management; Community Development** **13 (10+3) periods**

- a) Optimum use of resources; water and electricity.
- b) Waste management - need to refuse, reduce, reuse, repair and recycle wastes.
- c) Proper disposal of kitchen wastes.
- d) Schemes and Programmes for Community development: Objectives and Provision of ICDS, SABLA and Jan Dhan Yojna.

**PRACTICAL** **20 periods**

1. Observe and analyse the use of technology in your family and discuss with elders the alternatives in former time.
2. Record the daily expenses of your family for a week. Family size. Suggest ways to

- reduce unnecessary expenditures.
3. Identification and use of kitchen tools and at least any five e.g. Refrigerator Cooling Gas Mixer Grinder Microwave, Smokeless Chullah, Pressure Cooker etc.
  4. Weights and Measures: Equivalents/conversions of Ounce, Gram, cup, teaspoon, tablespoon. How to use a kitchen weighing scale.
  5. Identification of fruits, vegetables, spices, oils, sugars, cereals and lentils.
  6. Prepare sandwiches (at least 2 varieties).
  7. Collection and Identification of fabrics: physical and burning tests.
  8. Take a case study of a house for disposal of kitchen wastes and encourage segregation of biodegradable and non degradable wastes, through creating slogans / posters etc.
  9. File work
  10. Viva Voce

## CLASS IX SECOND TERM (2016-17)

**3 Hours**

**Theory 80 marks  
Practical 10 marks  
Formative 10 marks  
100 marks**

Units	Topics	Periods	No. of Marks
VII	Food Groups and Nutrients	18	15
VIII	Scientific Methods of Food Preparation	18	10
IX	Elements of Art and their Application	16	10
X	Consumer Education; Communication	12	15 (10+5)
XI	Selection of Fabric	14	20
XII	Measures of Safety and Management of Emergencies	12	10
	Practical	20	10
	<b>Grand Total</b>	<b>110</b>	<b>90</b>

### Unit VII: Food Groups and Nutrients

**18 Periods**

- a) Basic food groups and their functions
- b) Sources and functions of nutrients- Proteins, Carbohydrates , Fats, Vitamins (A,B,C,D,E) and Minerals (Calcium, Iron and Iodine) & water.

**Unit VIII: Scientific Methods of Food Preparation** **18 Periods**

- a) Conservation and enhancement of nutrients while preparing and cooking food.
- b) Brief description of methods of cooking: advantages, disadvantages, suitability for foods effect on nutrients (boiling, direct steaming, pressure-cooking, roasting, baking, shallow and deep-frying, solar cooking)

**Unit IX: Elements of Art, Principles of Design and their Application** **16 Periods**

- a) Elements of art- line, colour, texture and shape
- b) Principles of design - Balance, Proportion harmony, rythum and emphasis,
- c) Application of elements of art and dress desiging.

**Unit X: Consumer Education; Communication** **12 Periods**

- a) Definition of a consumer.
- b) Problems faced by consumers.
- c) Consumer rights and responsibilities
- d) Communication:
  - i) Concepts
  - ii) Ways to make communication effective

**Unit XI: Selection of Fabric and Apparel** **14 Periods**

- a) Characteristics of fabric (Cotton, Wool, Silk, Nylon, Blended fibres)-drape, warmness/ coolness, wrinkle resistance, durability etc.
- b) Factors affecting selection of fabric: age, purpose occupation, occasion, fashion, figure, climate, comfort and cost.

**Unit XII: Measures of Safety and Management of Emergencies** **12 Periods**

- a) Measures of safety against burns, electric shock, and food poisoning.
- b) Management of emergencies first aid for cuts, fractures, burns, electric shock, poisoning and bites (snake, dog)

**PRACTICAL** **20 Periods**

1. Type <sup>pr</sup> 6 from term I
2. Prepare snacks /dishes using different (atleast three) methods of cooking. Evaluate and record taste, texture and colour of prepared dishes/snacks.
3. Prepare an article using elements of art.
4. Prepare and present a skit on any social issue.
5. Evaluate suitability of given fabric, based on factors affecting selection.
6. Practice giving first aid for cuts, burns, bites, fractures and electric shocks.

7. Practice dressings for wounds on hand, elbow, finger, wrist and ankle.
8. File work
9. Viva Voce

**(D) HOME SCIENCE (CODE NO. 064) CLASS X (2016-17)**

**COURSE STRUCTURE**

**First Term**

**3 Hours**

**Theory 80 marks**

**Practical 10 marks**

**Formative 10 marks**

**100 marks**

<b>Units</b>	<b>Topics</b>	<b>Periods</b>	<b>Marks</b>
I	Growth and Development II	20	25
II	Resources	21	15
III	Food Hygiene	18	10
IV	Therapeutic adaptation of normal diet	22	15
V	Apparel and fabric selection	10	15
	Practical	20	10
	<b>Grand Total</b>	<b>110</b>	

**Unit I: Growth and Development in Humans**

**20 Periods**

- a) Growth and development of children(0-3years): Important milestones in physical, motor, social, emotional and language development.
- b) Physical, social and emotional needs of children.
- c) Play (0-5 years); role of play in growth and development of children, Types of play-active, passive, natural, serious and exploratory. Selection of play material for children.

**Unit II: Resources**

**20 Periods**

- a) Types of resources- Human (energy, time, knowledge and skill) and Non -Human (money, material goods and community resources).
- b) General characteristics of resources.
- c) Optimum use of resources: personal and shared.

**Unit III: Food Hygiene**

**18 Periods**

- a) Principles of hygienic handling of food, including serving of food.
- b) Hygiene in kitchen

- c) Personal hygiene of food handler
- d) Hygiene during food storage

**Unit IV: Therapeutic Adaptation of Normal Diet** **22 Periods**

- a) Concept, adaptation based on consistency and cooking methods.
- b) Preferring and avoiding certain food stuffs in specific physiological conditions: Obesity, fever, diarrhoea, constipation, diabetes, and hypertension.

**Unit V: Apparel and Fabric Selection** **10 Periods**

- a) Apparel selection according to cost, Age, complexion, size, figure and comfort.
- b) Workmanship of readymade garments, checking labels for assessing quality and care instructions.

**PRACTICAL** **20 Periods**

1. Observe and record play activities of children between 1-3 years of age with critical analysis.
2. Make suitable play material for children between 0-3 years.
3. Prepare a dish suitable for the given physiological condition.
4. Examine positive and negative qualities of one readymade and one tailor made garment.
5. Prepare a care label for a readymade garment according to its fabric and design.
6. File work
7. Viva Voce

## Second Term (2016-17)

**3 Hours**                      **Theory 80 marks**                      **Practical 10 marks**                      **Formative 10 marks**  
**100 marks**

Units	Topics	Periods	Marks
VI	Meal Planning	25	20
VII	Time, Energy and Money Management	20	20
VIII	Consumer Education	20	15
IX	Care and Maintenance of Fabrics and Apparel	15	15
X	Childhood Adolescence and Adulthood	10	10
	Practical	20	10
	<b>Grand Total</b>	<b>110</b>	<b>90</b>

**Unit VI: Meal Planning** **25 Periods**

- a) Concept

- b) Factors affecting meal planning: age, sex, climate, occupation, cost of food items, number of family members, occasion, availability of food, family traditions, likes and dislikes.
- c) Basic food groups ,use of food groups in planning balanced diet
- d) RDA as suggested by ICMR.

**UNIT VII: Time, Energy and Money Management**

**20 Periods**

- a) Need of managing resources.
- b) Time plans- factors affecting time plan
- c) Fatigue, ways to reduce fatigue
- d) Work simplification methods at home.
- e) Family income and types
- f) Expenditure and importance of saving and investment.

**Unit VIII: Consumer Education**

**20 Periods**

- a) Malpractices of traders: price variation, poor quality, adulteration, faulty weights and measures, non-availability of goods, misleading information, lack of standardized products.
- b) Aids to help consumers: standardization marks, labels, advertisements, pamphlets.

**Unit IX: Care and Maintenance of Fabrics and Apparel**

**15 Periods**

- a) Cleaning and finishing agents used in routine care of clothes.
- b) Stain removal
- c) Storage of cotton, silk, wool and synthetics.

**Unit X: Childhood, Adolescence and Adulthood**

**10 Periods**

- a) Special features of childhood, adolescence and adulthood
- b) Old age: needs and care

**PRACTICAL**

**20 Periods**

1. Plan a balanced meal comprising of not more than three dishes using all the basic food groups and prepare one dish.
2. Observe your daily routine for a week and suggest improvements based on time and energy management.
3. Prepare a report on any five malpractices you have observed in the market.
4. Collect labels of Ag mark, ISI, FPO, Eco logo. Mark and prepare one Collage.
5. Remove common stains of -curry, paint, ball pen ink, grease, lipstick, tea and coffee.
6. List five areas of agreement and disagreement each with parents, siblings and friends



and present the solutions to class.

7. Practical file.
8. Viva Voce

**HOME SCIENCE (IX and X) (CODE 064) DESIGN OF THE QUESTION PAPER  
CLASS IX (2016-2017), CLASS X (2016-17)**

**Time: 3 hours**

**Maximum Marks: 90**

The weightage of the distribution of marks over different dimensions of the question paper shall be as follows:

**A. Weightage of Content Unit Class - IX (2016-17)**

TERM - I			TERM - II		
Units	Topic	Marks	Units	Topics	Marks
I	Concept and scope of Home Science Education and recent trends	08	VII	Food groups and nutrients	15
II	Human growth and development	10	VIII	Scientific methods of food preparation	10
III	Family - a unit of society	10	IX	Elements of art and their application	10
IV	Food, Nutrition and Health	20	X	Consumer education; Communication	(10+5)15
V	Fibre and Fabric	17	XI	Selection of fabric and apparel	20
VI	Resource Management: Community Development	15	XII	Measures of safety and management of emergencies	10
	Practical	10		Practical	10
	<b>Grand Total</b>	<b>90</b>		<b>Grand Total</b>	<b>90</b>

**B. Weightage of content units Class - X (2016-17)**

TERM - I			TERM - II		
Units	Topic	Marks	Units	Topics	Marks
I	Growth and Development II	25	VI	Meal planning	20
II	Resources	15	VII	Time, energy and money management	20
III	Food Hygiene	10	VIII	Consumer education	15
IV	Therapeutic adaptation of normal diet	15	IX	Care and maintenance of fabric and Apparel	15
V	Apparel selection	15	X	Childhood adolescence and adulthood	10
	Practical	10		Practical	10
	<b>Grand Total</b>	<b>90</b>		<b>Grand Total</b>	<b>90</b>

**HOME SCIENCE (CODE NO. 064)**  
**QUESTION PAPER DESIGNS CLASS-IX**  
**(2016-17), CLASS-X (2016-17)**  
**SA-I & II**

S. No	Typology of Questions	Learning Outcomes & Testing Skills	Very Short Answer (1 Mark)	Short Answer-I (2 Marks)	Short Answer-II (4 Marks)	Case Study and Picture based (3 marks)	Long Answer (LA) (5 marks)	Marks	%
1	<b>Remembering- (Knowledge based)</b> Simple recall questions, to know specific facts, terms concepts, principles, or theories, Identify, define, or recite, information)	Reasoning Analytical skills Critical Thinking	2	1	1	-	-	08	10
2	<b>Understanding-</b> (Comprehension - to be familiar with meaning and to understand conceptually, interpret, compare, contrast, explain, paraphrase information)		1	2	1	-	1	14	18
3	<b>Application</b> (Use abstract information in concrete situation, to apply knowledge to new situations. Use given content to interpret a situation, provide an example, or solve a problem.		1	2	2	1	1	21	26
4	<b>Higher Order Thinking Skills (Analysis &amp; Synthesis -</b> Classify, compare, contrast, or differentiate between different pieces of information, Organize and/ or integrate unique pieces of information from a variety of sources)		1	2	2	-	1	18	22
5	<b>Creating, Evaluation and Multi-Creating, Evaluation and Multi-Disciplinary-</b> (Generating new ideas, product or ways of viewing things Appraise, judge, and/or justify the value or worth of a decision or outcome, or to predict outcomes based on values)		-	-	2	2	1	19	24
<b>Total Estimated Time</b>			1(5)=5	2(7)=14	4(8)=32	3(3)=9	5(4)=20	80	100

**Note:** No Chapter wise weightage, care should be taken to cover all chapters.

**(G) NATIONAL CADET CORPS (Code No. 076)**  
**SYLLABUS (2016-17)**

1. The training curriculum of the NCC is primarily focused on character building, inculcating leadership qualities and skill enhancement through structured academic syllabi, practical training and opportunity for exposure/interaction beyond a cadets' immediate environment, and thereby enabling them for a brighter and progressive future.
2. **The Aims of NCC:**
  - (a) To develop character, comradeship, discipline, secular outlook, spirit of adventure and the ideals of selfless service amongst the youth of the country.
  - (b) To create a human resource of organized, trained and motivated youth to provide leadership in all walks of life and always available for the service of the nation.
  - (c) To provide a suitable environment to motivate the youth to take up a career in the Armed Forces.
3. **Conduct of NCC Training Curriculum**
  - (a) **Institutional Training:** Conducted in respective schools/ colleges by Associate NCC Officers (ANO), Permanent Instructional (PI) staff as part of the school curriculum.
  - (b) **Annual Training Camps (ATC):** To provide practical outdoor training, each NCC cadet attends 10 days camp in the second year of junior and senior division. These camps are conducted by respective NCC units.
  - (c) **Centrally Organized Camps (COC):** These camps are conducted at all India level, as National Integration Camps, attended by cadets from all states.
  - (d) **Adventure Training:** To inculcate a spirit of adventure and team work, NCC cadets undergo various adventure activities such as para jumps, para sailing, trekking, mountaineering and sailing expeditions.
  - (e) **Attachment Camps:** To give the cadets exposure to interact with Regular Army, Navy and Air Force units, attachment camps are conducted, where cadets are attached with these units. To motivate cadets to join the Armed Forces attachment of cadets with Indian Military Academy is also conducted.
  - (f) **Youth Exchange Programme (YEP):** Selected cadets also get an opportunity to visit various foreign countries as part of YEP. In one year approximately 100 cadets visit 10 -11 countries.
  - (g) **Social Service Activities:** The cadets also undertake various social service activities, by conduct of rallies to bring awareness and participate in various relief programmes/activities whenever called for.
4. Trainers To conduct and implement the NCC training curriculum, there are three

tiers of trainers.

- (a) **First Tier:** Regular defence officers of the rank of Colour equivalent rank in Air Force and Navy, Whole Time Lady Officers (WTLO) and Civilian Gliding Instructors (CGI). They are responsible for coordination and supervision of training and conduct of camps.
- (b) **Second Tier:** Professors and teachers nominated by respective schools and colleges and trained by NCC at its NCC Officers Training Academy and on completion of Pre-Commission Course, commissioned as Associated NCC Officer (ANO) form the most important link between the cadets and NCC.

They conduct most of the theory classes of non-specialized subjects. Besides, the Pre Commission training they attend refresher courses.

- (c) **Third Tier:** The Junior Commissioned Officers (JCO) and Non-Commissioned Officers (NCO) from the three services and Girl Cadet Instructors (GCI) and Ship Model Instructors (SMI) conduct the specialized training of the cadets.

#### 5. Eligibility for Enrolment as Cadet.

- (a) Should be a citizen of India or a subject of Nepal.
- (b) Should be on the roll of the school or college which has an NCC Unit or part thereof.
- (c) The cadet should be within the age as mentioned below:-
  - (i) Junior Division - Not less than 13 years and below 18 years and 6 months.
  - (ii) Senior Division - Should be below 26 years.

6. NCC Syllabus. The syllabus includes common subjects for all three wings and specialized subjects with respect to Army, Air Force and Navy. The common subjects comprise of approximately 70% and specialized service is 30% of the curriculum. Detailed syllabus is as follows:

S. No.	Subject	No of Periods			
		First Year	Second Year	Third Year	Total
<b>Senior Division Wing</b>					
(i)	Common Subjects	66	72	72	210
(ii)	Specialised Subjects	24	33	33	90
	<b>TOTAL</b>	<b>90</b>	<b>105</b>	<b>105</b>	<b>300</b>
<b>Junior Division Wing</b>					
(a)	Common Subjects	85	85	--NA--	170
(b)	Specialised Subject	35	35		70
	<b>Total</b>	<b>120</b>	<b>120</b>		<b>240</b>

7. In addition to this syllabus, cadets attend one Annual Training Camp in the second year of junior and senior division to be eligible to appear in Part A and Part B certificate examination.

- 8 Cadets willing to pursue Part C Certificate will have to attend the third year senior division in the college.

### **Evaluation System**

9. NCC presently conducts three certificate examinations, these evaluations are conducted as a written paper for theory and practical in the second year of junior division for Part 'A' and in the second and third year of senior division for Part 'B' and 'C'. The setting of papers and evaluation for Part 'A' and 'B' examinations are done by a board of officers at NCC Group Head Quarters headed by an officer of the rank of Brigadier and Part 'C' Examination at NCC state Directorate level headed by a officer of the rank of Major General.
10. Recommended evaluation pattern for NCC as an additional / elective subject in the schools affiliated to CBSE is as follows:
- (a) Internal Examinations for class IX ( JD) and class XI (SD) be conducted by respective ANO's and PI staff under the supervision of respective Commanding Officers of the NCC unit. Marks to be included in the cadets' report card by the concerned school.
  - (b) Part 'A' examination paper to be set at state Directorate level and evaluated by Board of Officers at Group Headquarters. Copy of the result in respect of CBSE schools be forwarded to CBSE Board as performance evaluation of class X cadet.
  - (c) Part 'B' examination paper be set at HQ DG NCC level and evaluated by the Board of Officers at the Group Headquarters. A copy of the result in respect of CBSE schools to be forwarded to CBSE Board as performance evaluation of class XII cadets. The result sheet in addition to the NCC cadet number will also have the CBSE roll number. The marks obtained to be included in the CBSE Board certificate and 'C' Certificate to be issued by the concerned State Directorate.
  - (d) Part 'A' and 'B' exams to be conducted in the month of February, before the commencement of the main exams of the students. Respective exams to be conducted on a same date all over India. The schedule of examination to be approved by HQ, DG, NCC and forwarded to CBSE for inclusion in the examination schedule.
11. Study Material
- (a) **Textbooks**
    - (i) Cadet Hand Book (Common Subjects), published by DG NCC.
    - (ii) Cadet Hand Book (Specialized Subjects), published by DG NCC.
    - (iii) ANO Précis
  - (b) **Reference Books**
    - (i) Grooming Tomorrow's Leaders, published by DG, NCC.
    - (ii) Youth in Action, published by DG, NCC.
    - (iii) The Cadet, Annual Journal of the NCC.

- (iv) Précis Issued by respective Service Headquarters on specialized subject available to PI Staff as reference material.
12. Detailed syllabus with respect to Junior Division for class 9 and 10 , Senior Division class 11 and 12 listed in Part One to Part Three of the document.
- (a) Part One - Junior Division Syllabus for class IX and X.
- (b) Part Two - Senior Division Syllabus for class XI and XII.
- (c) Part Three - Annual Training Camp Syllabus for class X (JD) and class XII (SD).

## **PART-I**

### **JUNIOR DIVISION SYLLABUS FOR CLASS IX AND X**

#### **Rationale**

1. The NCC training curriculum is structured in a manner to instil in the cadets qualities like nationalism, patriotism, discipline, team spirit, esprit-de-corps, leadership, self confidence, national integration and improve their personality. The training is conducted with the following specific purpose:-
  - (a) To expose young cadets to a regimental way of life, which is essential to inculcate in them the values of discipline, duty, punctuality, orderliness, smartness, and respect for authority, correct work ethos and self-confidence.
  - (b) To generate interest in cadets by including and laying emphasis on those aspects of institutional training which attract youth and provide them an element of thrill and excitement.
  - (c) To inculcate Defence Services work ethos, which is characterized by hard work, sincerity of purpose, honesty, ideals of selfless service, dignity of labour, secular outlook, comradeship, spirit of adventure and sportsmanship.

#### **Objectives**

- Motivate young dynamic youth to serve the nation.
- Inculcate unity and discipline amongst citizens.
- Promote leadership and make self-reliant citizens.
- Prepare a volunteer force to participate during national disasters.
- Raise awareness to live with principles and values.
- Gain a glimpse and overview of armed forces.
- Develop a sense of national integration.
- Create awareness about social causes and community development.
- Inculcate sportsmanship and spirit of adventure.
- Learn about road safety and traffic control
- Learn about life saving and first aid.

**CLASS IX**  
**Block Syllabus**

Sl No.	Unit	Marks	Periods
<b>Part 1: Common Subjects</b>			
1	The NCC	08	03
2	National Integration and Awareness		07
3	Civil Affairs		04
4	Drill	25	19
5	Weapon Training		16
6	Adventure Training and Obstacle		8
7	Personality Development and Leadership	16	10
8	Social Awareness and Community Development		08
9	Health and Hygiene		06
10	Environment Awareness and Conservation		02
	<b>Total</b>	<b>49</b>	<b>83</b>
<b>Part 2 A: Special Subjects (Army)</b>			
		<b>Marks</b>	<b>Periods</b>
1	Armed Forces	04	04
2	Military History		06
3	Map Reading	17	13
4	Field Craft and Battle Craft		09
5	Communication		03
	<b>Total</b>	<b>21</b>	<b>35</b>
<b>Part 2 B: Special Subjects (Navy)</b>			
		<b>Marks</b>	<b>Periods</b>
1	Naval Orientation	11	17
2	Naval communication		04
3	Seamanship	10	12
4	Ship and Boat Modelling		02
	<b>Total</b>	<b>21</b>	<b>35</b>
<b>Part 2 C: Special Subjects (Air Force)</b>			
		<b>Marks</b>	<b>Periods</b>
1	General Service Knowledge	12	05
2	Air Campaigns		02
3	Aero Modelling		08
4	Principle of Flight	09	09
5	Parts of Aircraft		02
6	Aircraft Particulars		01
7	Air Field Layout		01
8	RT Procedure		02
	<b>Total</b>	<b>21</b>	<b>30</b>

## PART-II COMMON SUBJECTS ( Syllabus)

**Total Marks: 49**

**Total Periods: 83**

**Unit 1: The NCC**

**03 Periods**

**Aim:** To acquaint cadets with the aims and objectives of NCC

**Scope:** Introduction, aims, organization and general information about NCC.

- Aims and Objectives of NCC.
- Organisation and Training and NCC Song
- Incentives of Joining NCC

**Unit 2: National Integration and Awareness**

**07 Periods**

**Aim:** To inculcate sense of patriotism, secular values and motivate cadets to contribute towards nation building through national unity and social cohesion.

**Scope:** The concepts of National Interests, Objectives and Integration, Unity in diversity and cultural heritage of India.

- Religions, Culture, Traditions and Customs of India
- National Integration: Importance and Necessity
- Freedom Struggle and Nationalist Movement in India.
- Problems/ Challenges of National Integration.
- Unity in Diversity.
- Famous Leaders of India
- Images/ Slogans for National Integration
- Contribution of Youth to Nation Building

**Unit 3: Civil Affairs**

**04 Periods**

**Aim:** To train Cadets to assist Civil Administration in performance of selective duties during disasters.

**Scope:** Basic information about civil defence organization and its duties, maintenance of essential services and providing assistance to civil administration in various types of emergencies during national disasters.

- Civil Defence Organization and its duties/ NDMA
- Types of emergencies/ Natural Hazards
- Role of NCC during Natural Hazards/ Calamities
- Civil Administrative Set up at District/Taluk/Village



- Fire service and fire Fighting
- Essential services and their maintenance

#### **Unit 4: Drill**

**19 Periods**

**Aim:** To inculcate a sense of discipline, improve bearing, smartness, and turnout and to develop the quality of immediate and implicit obedience to orders.

**Scope:** All-important basic aspects of drill including ceremonial drill, drill with arms and words of command.

##### **Drill without Arms**

- General and Words of Command
- Attention, Stand at Ease and Stand Easy, turning and inclining at the halt
- Sizing, forming up in three ranks and numbering, open and close order march and dressing
- Saluting at the halt
- Getting on parade, dismissing and falling out
- Marching, length of pace and time of marching in quick time and halt, slow march and halt
- Turning on the march and wheeling
- Saluting on the March Individual word of command

#### **Unit 5: Weapon Training**

**16 Periods**

**Aim:** To give elementary knowledge about rifles.

**Scope:** Basic Knowledge about rifle and firing.

- Characteristics of a rifle/ rifle ammunition and its fire power
- Stripping, assembling, care and cleaning and sight setting
- Loading, cocking and unloading
- The lying position and Holding
- Aiming, range and figure target
- Trigger control and firing a shot
- Range precautions and safety precautions
- Short range firing

#### **Unit 6: Adventure Training**

**08 Periods**

**Aim:** To inculcate a sense of adventure and develop confidence, courage and determination.

**Scope:** To expose cadets to various adventure activities.

- Trekking including selection of route and administration planning
- Cycle expedition including selection of route and administration planning
- Rock climbing

### **Unit 7: Personality Development and Leadership**

**10 Periods**

**Aim:** To develop an all-round dynamic personality with adequate leadership traits to deal / contribute effectively in all walks of life.

**Scope:** Basic subjects of leadership with emphasis on self-awareness, life/soft skills, time management and character building.

- Introduction to Personality development
- Factors influencing/shaping personality: Physical, Social, Psychological and philosophical
- Self Awareness - know yourself
- Critical and creative thinking
- Communication skills: group discussions/lectures
- Self confidence, courage & self conviction
- Effects of leadership with historical examples
- Problem solving skills
- Interview skills
- Importance of group and team work
- Effective use of time
- Coping with stress / emotions
- Sociability: social skills
- Characteristics of healthy personalities - ethics/values

### **Unit 8: Social Awareness Community Development**

**08 Periods**

**Aim:** To teach cadets the values and skills involved in providing voluntary Social Service.

**Scope:** Understanding of social service and its needs, knowledge about the weaker sections of our society and their requirements, about NGOs and contribution of youth towards social welfare.

- Basics of Social service, and its needs
- Social/ Rural Development Projects: MNREGA, SGSY, NSAP etc.
- Literacy enhancement and poverty alleviation
- Contribution of youth towards social welfare
- Civic responsibilities

- Drug abuse and trafficking
- Causes and prevention of HIV/AIDS, Role of Youth
- Corruption
- Social evils viz dowry/female foeticide/child abuse and trafficking etc
- Traffic control organization and anti drunken driving
- Provisions of child Act

### **Unit 9: Health and Hygiene**

**06 Periods**

**Aim:** To instil respect and responsibility towards personal health and hygiene.

**Scope:** Basic information of the human body, maintenance of health, hygiene, sanitation, disease and an elementary knowledge of First Aid and Nursing.

- Structure and functioning of the human body
- Hygiene and sanitation (Personal and Food Hygiene)
- Physical and mental health
- Infectious and contagious diseases and its prevention
- Basics of first aid in common medical emergencies
- Wounds and fractures
- Introduction to yoga and exercise 2

### **Unit 10: Environment Awareness and Conservation**

**02 Periods**

**Aim:** To sensitise the cadets on natural resource conservation and protection of environment.

**Scope:** Basic understanding of environment in general and waste management in particular, energy conservation, pollution control and wildlife conservation in particular.

- Natural resources - conservation and management
- Water conservation and rain water harvesting
- Waste management
- Pollution control, water, air, noise, soil
- Wildlife conservation: projects in India

## **SPECIALISED SUBJECTS (ARMY)**

**Total Marks: 21**

**Total Periods: 35**

### **Unit 1: Armed Forces**

**04 Periods**

**Aim:** To acquaint cadets with the Armed Forces

**Scope:** Introductory and general information about the Armed Forces

- Basic organization of Armed Forces
- Organisation of the Army
- Badges and Ranks
- Honours and Awards
- Modes of entry into Army
- Fighting Arms
- Supporting Arms and Services

### **Unit 2: Military History**

**06 Periods**

**Aim:** To provide knowledge of renowned Military Generals, PVCs and Indo-Pak Wars

**Scope:** Introduction to biographies, famous Indian battles and gallantry awards

- Biographies of renowned generals (Carriappa/ Manekshaw)
- Indian Army War Heroes
- Study of battles of Indo-Pak war 1965, 1971 and Kargil
- War movies

### **Unit 3: Map Reading**

**13 Periods**

**Aim:** To teach cadets elementary map reading

**Scope:** Basic understanding of map sheets and map reading instruments and development of capability to use them to carry out simple Map Reading

- Introduction to types of Maps and conventional signs.
- Scales and grid system
- Topographical forms and technical terms
- Relief, contours and gradients
- Cardinal points and Types of North

### **Unit 4: Field Craft and Battle Craft**

**09 Periods**

**Aim:** To teach cadets elementary field craft and battle craft

**Scope:** Basic field craft and battle craft

- Introduction
- Judging distance
- Description of ground
- Recognition, description and indication of land marks and targets
- Observation, camouflage and concealment
- Field signals

- Use of ground and movement
- Selection of formations
- Knots and Lashing

#### **Unit 5: Communication**

**03 Periods**

**Aim:** To introduce cadets to the latest trends in the field of communications

**Scope:** Types of communications and future trends

- Importance of communication
- Means of communication
- Modern methods of communication

## **SPECIALIZED SUBJECTS (NAVY)**

**Total Marks: 21**

**Total Periods: 35**

#### **Unit 1: Naval Orientation**

**17 Periods**

**Aim:** To impart training on Naval Organization.

**Scope:** History of Indian Naval Organizations, Rank structure, Indo-Pak War- 1971 etc.

- History of the Indian Navy (Gallantry Award Winners)
- Organization of IN - NHQ, Commands and Ships
- Main Parts of a Ship
- Types of Warships and Role - A/C Carriers, Submarines, Destroyers, and Frigates
- Organization on Board a Ship
- Survival and Rescue - Life Safety Items on board Ship, Life Raft, Life Boats and Distress Signals

#### **Unit 2: Naval Communication**

**04 Periods**

**Aim:** To impart basic knowledge of Naval Communication.

**Scope:** Introduction to visual communication.

- Introduction to Naval Communication
- Semaphore, use of semaphore, introduction of various letter position, Reading of semaphore message, Transmission of semaphore message
- Phonetic Alphabet - Introduction and use

#### **Unit 3: Seamanship**

**12 Periods**

**Aim:** To impart basic knowledge about Seamanship.

**Scope:** Introduction to rigging, anchor work, parts of boats and accessories etc.

- Rigging
- Bends and Hitches: Reef Knot, Half Hitch, Clove Hitch, Rolling Hitch, Timber Hitch, Bow line, Round Turn and Two Half Hitches and Bow Line on the Bight and its basic element
- Anchor and Anchor Cable- Types of anchors and cable its use

#### **Unit 4: Ship and Boat Modelling**

**02 Periods**

**Aim:** To provide knowledge about Ship Modelling

**Scope:** Materials used in different types of models

- Principles of Ship Modelling
- Reading of a Ship Drawing of a Model
- Views in blue print
- Measurement of superstructure and hull

## **SPECIALIZED SUBJECTS (AIR FORCE)**

**Total Marks: 20**

**Total Periods: 30**

#### **Unit 1: General Service Knowledge**

**02 Periods**

**Aim:** To impart basic knowledge of IAF

**Scope:** History and Organization of IAF

- Development of Aviation.
- History of IAF

#### **Unit 2: Air Campaigns**

**02 Periods**

**Aim:** To impart basic knowledge of Air Campaigns

**Scope:** History and Motivation.

- Indo-Pak War-1971
- Operation Safed Sagar
- Motivational Movies

#### **Unit 3: Aero-modelling**

**08 Periods**

**Aim:** To provide knowledge about Aero Modelling

**Scope:** History of aero modelling, materials used in different types of models

- History of Aero-modelling
- Materials used in Aero-modelling
- Types of Aero-models

- Building /Flying of Aero-models

**Unit 4: Principles of Flight**

**09 Periods**

**Aim:** To introduce principles of flight

**Scope:** To impart knowledge about basic principles on which aviation is based

- Introduction
- Laws of Motion
- Glossary of Terms

**Unit 5: Parts of Aircraft**

**02 Periods**

**Aim:** To provide knowledge of Aircraft Parts

**Scope:** Knowledge about the parts of aircraft to be flown

- Parts of Aircraft

**Unit 6: Aircraft Particulars**

**01 Periods**

**Aim:** To provide knowledge of Aircraft Instruments

**Scope:** Knowledge about the aircraft to be flown including checks and procedures

- Aircraft Particular Type, Specific

**Unit 7: Airfield Layout**

**01 Periods**

**Aim:** To provide knowledge of Airfields

**Scope:** Knowledge about the airfields to be flown including checks and procedures Airfield Layout

**Unit 8: RT Procedure**

**02 Periods**

**Aim:** To provide knowledge of wireless communication.

**Scope:** Knowledge about the communication is required for flying aircraft

- RT Procedure

### Class X (Block Syllabus)

Sl No.	Unit	Marks	Periods
<b>Part 1: Common Subjects</b>			
1	The NCC	07	01
2	National Integration and Awareness		08
3	Disaster Management		04
4	Drill	27	21
5	Weapon Training		14
6	Adventure Training and Obstacle		04
7	Personality Development and Leadership	15	14
8	Social Awareness and Community Development		07
9	Health and Hygiene		07
10	Environment Awareness and Conservation		03
	<b>Total</b>	<b>49</b>	<b>85</b>
<b>Part 2 A: Special Subjects (Army)</b>		<b>Marks</b>	<b>Periods</b>
1	Armed Forces	04	05
2	Military History		05
3	Map Reading	17	11
4	Field Craft and Battle Craft		11
5	Communication		03
	<b>Total</b>	<b>21</b>	<b>35</b>
<b>Part 2 B: Special Subjects (Navy)</b>		<b>Marks</b>	<b>Periods</b>
1.	Naval Orientation	07	07
2.	Naval Communication		04
3.	Seamanship	14	12
4.	Navigation		06
5.	Ship and Boat Modelling		06
	<b>Total</b>	<b>21</b>	<b>35</b>
<b>Part 2 C: Special Subjects (Air Force)</b>		<b>Marks</b>	<b>Periods</b>
1	Air Campaigns	13	06
2	Aircraft Recognition		03
3	Aeromodeling		24
4	Atmosphere	08	01
5	Maps		01
	<b>Total</b>	<b>21</b>	<b>35</b>



## COMMON SUBJECTS (Detailed Syllabus)

**Total Marks: 49**

**Total Periods: 83**

### **Unit 1: The NCC**

**01 Periods**

**Aim:** To acquaint cadets with the aims and objectives of NCC

**Scope:** Introduction, aims, organization and general information about NCC.

- Aims and Objectives of NCC.
- Organization and Training and NCC Song
- Incentives of Joining NCC

### **Unit 2: National Integration and Awareness**

**08 Periods**

**Aim:** To inculcate sense of patriotism, secular values and motivate cadets to contribute towards nation building through national unity and social cohesion.

**Scope:** The concepts of National Interests, Objectives and Integration, Unity in diversity and cultural heritage of India.

- Religions, Culture, Traditions and Customs of India
- National Integration: Importance and Necessity
- Freedom Struggle and Nationalist Movement in India.
- Problems/ Challenges of National Integration.
- Unity in Diversity.
- Famous Leaders of India
- Images/ Slogans for National Integration
- Contribution of Youth in Nation Building

### **Unit 3: Disaster Management /Civil Affairs**

**04 Periods**

**Aim:** To train Cadets to assist Civil Administration in performance of selective duties during disasters.

**Scope:** Basic information about civil defence organization and its duties, maintenance of essential services and providing assistance to civil administration in various types of emergencies during national disasters

- Civil Defence Organisation and its duties/ NDMA
- Types of emergencies/ Natural Hazards
- Role of NCC during Natural Hazards/ Calamities
- Civil Administrative Set up at District/Taluk/Village
- Fire service and fire fighting
- Essential services and their maintenance

#### **Unit 4: Drill**

**21 Periods**

**Aim:** To inculcate a sense of discipline, improve bearing, smartness, and turnout and to develop the quality of immediate and implicit obedience of orders.

**Scope:** All important basic aspects of drill including ceremonial drill, drill with arms and words of command.

##### **Drill without Arms**

- General and Words of Command
- Attention, Stand at Ease and Stand Easy, turning and inclining at the halt
- Sizing, forming up in three ranks and numbering, open and close order march and dressing
- Saluting at the halt,
- Getting on parade, dismissing and falling out
- Marching, Length of Pace and time of marching in quick time and halt, slow march and halt
- Turning on the march and wheeling
- Saluting on the March
- Individual word of command

#### **Unit 5: Weapon Training**

**14 Periods**

**Aim:** To give elementary knowledge about rifles.

**Scope:** Basic Knowledge about rifle and firing.

- Characteristics of a rifle/ rifle ammunition and its fire power
- Stripping, assembling, care and cleaning and sight setting
- Loading, cocking and unloading
- The lying position and Holding
- Aiming, range and figure target
- Trigger control and firing a shot
- Range precautions and safety precautions
- Short range firing

#### **Unit 6: Adventure Training**

**04 Periods**

**Aim:** To inculcate a sense of adventure and develop confidence, courage and determination.

**Scope:** To expose cadets to various adventure activities.

- Trekking including selection of route and administration planning
- Cycle expedition including selection of route and administration planning
- Rock climbing

#### **Unit 7: Personality Development and Leadership**

**14 Periods**

**Aim:** To develop an all-round dynamic personality with adequate leadership traits to deal / contribute effectively in all walks of life.

**Scope:** Basic subjects of leadership with emphasis on self-awareness, life/soft skills, time management and character building.

- Introduction to Personality development
- Factors influencing/shaping personality: Physical, Social, Psychological and philosophical
- Self Awareness - know yourself
- Critical and creative thinking
- Communication skills: group discussions/lectures
- Self confidence, courage & self conviction
- Effects of leadership with historical examples
- Problem solving skills
- Interview skills
- Importance of group and team work
- Effective use of time
- Coping with stress / emotions
- Sociability: social skills
- Characteristics of healthy personalities - ethics/values

#### **Unit 8: Social Awareness Community Development**

**7 Periods**

**Aim:** To teach cadets the values and skills involved in providing voluntary Social Service.

**Scope:** Understanding of social service and its needs, knowledge about the weaker sections of our society and their requirements, about NGOs and contribution of youth towards social welfare.

- Basics of Social service, and its needs
- Social/ Rural Development Projects: MNREGA, SGSY, NSAP etc.
- Literacy enhancement and poverty alleviation
- Contribution of youth towards social welfare
- Civic responsibilities
- Drug abuse and trafficking
- Causes and prevention of HIV/AIDS, Role of Youth
- Corruption
- Social evils viz. dowry/female foeticide/child abuse and trafficking etc.
- Traffic control organization and anti drunken driving
- Provisions of child act

## **Unit 9: Health and Hygiene**

**07 Periods**

**Aim:** To instil respect and responsibility towards personal health and hygiene.

**Scope:** Basic information of the human body, maintenance of health, hygiene, sanitation, disease and an elementary knowledge of First Aid and Nursing.

- Structure and functioning of the human body
- Hygiene and sanitation (Personal and Food Hygiene)
- Physical and mental health
- Infectious and contagious diseases and its prevention
- Basics of first aid in common medical emergencies
- Wounds and fractures
- Introduction to yoga and exercise

## **Unit 10: Environment Awareness and Conservation**

**03 Periods**

**Aim:** To sensitise the cadets on natural resource conservation and protection of environment.

**Scope:** Basic understanding of environment in general and waste management in particular, energy conservation, pollution control and wildlife conservation in particular.

- Natural resources - conservation and management
- Water conservation and rain water harvesting
- Waste management
- Pollution control, water, air, noise, soil
- Wildlife conservation: projects in India

## **SPECIALISED SUBJECTS (ARMY)**

**Total Marks: 21**

**Total Periods: 35**

### **Unit 1: Armed Forces**

**05 Periods**

**Aim:** To acquaint cadets with the Armed Forces

**Scope:** Introductory and general information about the Armed Forces

- Basic organization of Armed Forces
- Organization of the Army
- Badges and Ranks
- Honours and Awards
- Modes of entry into Army
- Fighting Arms
- Supporting Arms and Services

### **Unit 2: Military History**

**05 Periods**

**Aim:** To provide knowledge of renowned Military Generals, PVCs and Indo-Pak Wars

**Scope:** Introduction to biographies, famous Indian battles and gallantry awards

- Biographies of renowned generals (Carriappa/ Manekshaw)
- Indian Army War Heroes
- Study of battles of indo Pak war 1965, 1971 and Kargil
- War movies

**Unit 3: Map Reading**

**11 Periods**

**Aim:** To teach cadets elementary map reading

**Scope:** Basic understanding of map sheets and map reading instruments and development of capability to use them to carry out simple Map Reading

- Introduction to types of Maps and conventional signs.
- Scales and grid system
- Topographical forms and technical terms
- Relief, contours and gradients
- Cardinal points and Types of North
- Types of bearings and use of service protractor

**Unit 4: Field Craft and Battle Craft**

**11 Periods**

**Aim:** To teach cadets elementary field craft and battle craft

**Scope:** Basic field craft and battle craft

- Introduction
- Judging distance
- Description of ground
- Recognition, description and indication of land marks and targets
- Observation, camouflage and concealment
- Field signals
- Use of ground and movement
- Selection of formations
- Knots and Lashing

**Unit 5: Communication**

**03 Periods**

**Aim:** To introduce cadets to latest trends in the field of communications

**Scope:** Types of communications and future trends

- Importance of communication
- Means of communication

## SPECIALIZED SUBJECTS (NAVY)

**Total Marks: 21**

**Total Periods: 35**

### **Unit 1: Naval Orientation**

**Periods 07**

**Aim:** To impart training on Naval Organisation.

**Scope:** History of Indian Naval Organizations, Rank structure, Indo-Pak War- 1971 etc.

- Indo Pak War -1971
- Rank Structure and Badges - PBOR to MCPO and Equivalent
- Rank Structure and Badges - Officers and equivalent
- Mode of entry into IN

### **Unit 2: Naval Communication**

**Periods 04**

**Aim:** To impart basic knowledge to Naval Communication.

**Scope:** Introduction to visual communication.

- Semaphore, Use of semaphore, introduction of various letter position, Reading of semaphore message, Transmission of semaphore message
- Introduction to radio telephony procedure

### **Unit 3: Seamanship**

**Periods 12**

**Aim:** To impart basic knowledge about Seamanship.

**Scope:** Introduction to rigging, anchor work, parts of boats and accessories etc.

- Fundamentals of Steering - Steering orders, reports and alteration of course
- Parts of a Sail- types of sails
- Parts of Whaler and Oar- Pulling orders
- Parts of a Cadet Class Dingy- sailing terms
- Throwing a Heaving Line- Use of Heaving line on board
- Use of Boatswain Call (Piping)- Parts of Pipe

### **Unit 4: Navigation**

**Periods 06**

**Aim:** To impart basic knowledge to Naval Communication.

**Scope:** Introduction to visual communication.

- Uses of Maps and Charts and its purpose
- Instruments required for chart work
- Markings on Chart, Light houses, buoys
- Introduction to Map reading and Navigation Aids to include GPS

### **Unit 5: Ship and Boat Modelling**

**Periods 06**

**Aim:** To impart basic knowledge about Ship Modelling to cadets.

**Scope:** Basic knowledge about reading of Diagrams and construction of Ship Models.

- Practical Training on Static Models
- Preparation of hull construction
- Preparation of super structure
- Chemical work and finishing of model
- Stability and Operation of model

## **SPECIALIZED SUBJECTS (AIR FORCE)**

**Total Marks: 21**

**Total Periods: 35**

### **Unit 1: Air Campaigns**

**06 Periods**

**Aim:** To introduce Air Campaigns of Air Force

**Scope:** An overview of important campaigns

- Indo-Pak War-1971
- Operation Safed Sagar
- Motivational Movies

### **Unit 2: Aircraft Recognition**

**03 Periods**

**Aim:** To introduce various aircrafts of the Air Force

**Scope:** Types, roles, variants of aircraft of the IAF

- Fighters
- Transport
- Helicopters.

### **Subject 3: Aero-modelling**

**24 Periods**

**Aim:** To provide knowledge about Aero Modelling

**Scope:** Materials used in different types of models

- History of Aero-modelling
- Materials used in Aero-modelling
- Types of Aero-modelling
- Flying/Building of Aero-models

### **Unit 4: Atmosphere**

**01 Periods**

**Aim:** To give basic knowledge of Atmosphere

**Scope:** Use of basic knowledge of Atmosphere

- Atmosphere

### **Subject 5: Maps**

**01 Periods**

**Aim:** To give basic knowledge of Air Navigation

**Scope:** Use of Maps and fundamentals of Map Reading from the air

- Maps

## Annual Training Camp: Junior and Senior Division

### Rationale

- The Annual Training Camp is an exciting and essential element of NCC. Activities at the camp will help students develop qualities like social service, team spirit, challenge, leadership, discipline, self confidence, widen horizon, develop ambition to do creative work, enhance personal and social development, learn how to overcome adversity, civil defence & self defence, other new and exciting experiences.
- The Training Camp will make the students become more aware that they are a part of a greater ecosystem and are not As bound by social customs and norms. In essence, students will be true to themselves and more able to see others as people regardless of class, colour and creed.
- Camp activities will lead students to self-reliance, self-confidence, national spirit and leadership, and will enhance the NCC aims of developing character, comradeship, discipline, secular outlook, spirit of adventure and the ideals of selfless service among the youth of the country.
- The Training Camp will let students live in the camp with a social environment and help teachers observe and understand their students' development in terms of personal aspirations, psychological behaviours and social skills. It will also allow students to appreciate their environment and natural surroundings and provide opportunities for students to be independent and exercise self-discipline.
- The Annual Training Camp is the culmination of NCC training instills and stimulates in youths an urge for excellence and inculcates a spirit of adventure and outdoor activities.

### Objectives

- Attendance of ATC is a mandatory requirement before the cadet is eligible for A and B Certificate in case JD/JW and SD/SW respectively.
- ATC is conducted for duration of 10 days in the second year of JD/JW and SD/SW to provide outdoor practical trg.
- General activities covered during the ATC are as under :-
  - Physical fitness to include PT, Yoga, Games, Obstacle trgDrill
  - Weapon training and firing.
  - Map Reading
  - Field Craft and Battle Craft.
  - Personality development.
  - National Integration and Social awareness.
  - Cultural activities.
  - Lectures on Civil Affairs, Social Awareness and Community Development, Health and Hygiene and



environment issues.

- Cadets will be tested for practical training during the camp as under: -
  - Drill.
  - Weapon Training.
  - Firing.
  - Obstacle Training.
  - Map Reading.
  - Field Craft and Battle Craft.
- ATC will be conducted under the aegis of the unit affiliated to the school/college.
- ATC will be conducted during the period from August to February by the ANO and Cadets keeping in view the availability of cadets as per their academic /curricular schedule

**CLASS X**  
**ANNUAL TRAINING CAMP: JUNIOR DIVISION (ARMY)**  
**(Block Syllabus)**

S. No.	UNITS	MARKS	PERIODS
1	Physical Training, Games and Obstacle Training	4	12
2	Drill	8	16
3	WT and Firing	8	16
4	Map Reading	6	12
5	FC and BC	4	10
6	Military History	0	12
7	Personality Development	0	18
8	National Integration, Civil Affairs, Environment, Social Awareness and Community development, Health and hygiene	0	16
	<b>TOTAL</b>	<b>30</b>	<b>112</b>

**ANNUAL TRAINING CAMP**

**Total Marks 30**

**Periods 112**

**Unit 1: Physical Training and Games**

**04 Marks**

**12 Periods**

- Physical Training
- Yoga
- Games
- Obstacle Training

**Unit 2: Drill**

**08 Marks**

**16 Periods**

- Words of Command

<ul style="list-style-type: none"> <li>• Drill Without Arms</li> <li>• Individual Drill</li> <li>• Squad Drill</li> </ul>		
<b>Unit 3: Weapon Training</b>	<b>08 Marks</b>	<b>16 Periods</b>
<ul style="list-style-type: none"> <li>• Characteristics of 22 Rifle, Stripping, Assembling</li> <li>• Loading/Unloading And Bolt Manipulation</li> <li>• Lying position and Holding</li> <li>• Aiming, Range and Figure Target</li> <li>• Trigger Control and Firing a Shot</li> <li>• Range Procedure and Safety Precautions</li> <li>• Firing. 22 Rifle</li> </ul>		
<b>Unit 4: Map Reading</b>	<b>06 Marks</b>	<b>12 Periods</b>
<ul style="list-style-type: none"> <li>• Introduction to Map and Conservational Signs</li> <li>• Prismatic Compass, use and introduction to GPS</li> </ul>		
<b>Unit 5: Field Craft and Battle Craft</b>	<b>04 Marks</b>	<b>10 Periods</b>
<ul style="list-style-type: none"> <li>• Description of Ground</li> <li>• Judging Distance</li> <li>• Field Signal</li> <li>• Section Formation</li> <li>• Knots and Lashing</li> <li>• Observation, Camouflage and Concealment</li> </ul>		
<b>Unit 6: Military History</b>	<b>00 Marks</b>	<b>12 Periods</b>
<ul style="list-style-type: none"> <li>• Biographies of Military Leaders</li> <li>• Indian Battles</li> <li>• Indian Army War Heroes</li> <li>• War Movies</li> </ul>		
<b>Unit 7: Personality Development</b>	<b>00 Marks</b>	<b>18 Periods</b>
<ul style="list-style-type: none"> <li>• Factors Influencing/Shaping Personality-Physical, Social, Psychological and Philosophical</li> <li>• Self Awareness and Critical and Creative Thinking</li> <li>• Importance of Team Work, Communication Skills-Group Discussion</li> <li>• Character Building</li> <li>• Leadership Traits</li> <li>• Interview Skills</li> <li>• Time Management</li> </ul>		

## **Unit 8: National Integration and Social Awareness National Integration 00 Marks**

**16 Periods**

- Unity in Diversity
- National Integration and its Importance
- Contribution of Youth to Nation Building

### **CIVIL AFFAIRS**

#### **Disaster Management Fire Services and Fire Fighting Vigilance awareness**

- Civil Defence Organization and Its Duties
- Types of Emergencies/Natural Disasters
- Role of NCC during Natural Hazards
- Civil Administrative setup at District/Tehsil/Village

### **ENVIRONMENT AWARENESS**

- Conservation of Environment and Ecology
- Pollution and its Control
- Wildlife Conservation

### **SOCIAL AWARENESS AND COMMUNITY DEVELOPMENT**

- Drug Abuse and Trafficking
- HIV and AIDS-Causes and Prevention
- Cancer awareness
- Adult Education
- Traffic Control Organization
- Rural Development Programmes
- Civic Responsibilities
- Corruption
- Social Evils
- Child Abuse and Trafficking
- Female foeticide

### **HEALTH AND HYGIENE**

- First Aid In Common Medical Emergencies
- Hygiene And Sanitation-Personal and Food Hygiene
- Preventable Diseases
- Physical and Mental Health

**CLASS X**  
**ANNUAL TRAINING CAMP: JUNIOR DIVISION (NAVY**  
**(Block Syllabus)**

S. No.	UNITS	MARKS	PERIODS
1.	Physical Training, Games and Obstacle Training	4	16
2.	Drill	9	20
3.	Wt and Firing	4	8
4.	Naval Orientation	2	4
5.	Naval Communication	2	4
6.	Navigation	1	1
7.	Seamanship	6	11
8.	Ship and Boat Modelling	2	4
9.	Military History	0	8
10.	Personality Development	0	10
11.	National Integration, Civil Affairs, Environment, Social Awareness and Community Development, Health and Hygiene	0	16
12.	TEST	30	10
	<b>TOTAL</b>	<b>30</b>	<b>112</b>

**ANNUAL TRAINING CAMP**  
**(Detailed Syllabus)**

<b>Total Marks 30</b>		<b>Periods 112</b>
<b>Unit 1: Physical Training and Games</b>	<b>04 Marks</b>	<b>16 Periods</b>
<ul style="list-style-type: none"> <li>• Physical Training</li> <li>• Yoga</li> <li>• Games</li> </ul>		
<b>Unit 2: Drill</b>	<b>09 Marks</b>	<b>20 Periods</b>
<ul style="list-style-type: none"> <li>• Words of Command</li> <li>• Drill With Arms</li> <li>• Individual Drill</li> <li>• Squad Drill</li> <li>• Ceremonial Drill</li> </ul>		
<b>Unit 3: Weapon Training</b>	<b>04 Marks</b>	<b>08 Periods</b>
<ul style="list-style-type: none"> <li>• Characteristics of .22 Rifle,</li> </ul>		

<ul style="list-style-type: none"> <li>• Loading/Unloading and Bolt Manipulation</li> <li>• Lying Posn and Hold</li> <li>• Aiming , Range and Figure Targets</li> <li>• Trigger Control and Firing a Shot</li> <li>• Range Procedure and Safety Precautions</li> <li>• Firing .22 Rifle</li> </ul>		
<b>Unit 4: Naval Orientation</b>	<b>02 Marks</b>	<b>04 Periods</b>
<ul style="list-style-type: none"> <li>• Main Parts of a Ship</li> <li>• Survival and Rescue- Life Safety</li> <li>• Items on Board Ship, Life Raft,</li> <li>• Life Boats and Distress signals</li> </ul>		
<b>Unit 5: Naval Communication</b>	<b>02 Marks</b>	<b>04 Periods</b>
<ul style="list-style-type: none"> <li>• Semaphore, , Use of Semaphore,</li> <li>• Introduction of Various Letter</li> <li>• Position, Reading of Semaphore</li> <li>• Message, Transmission of Semaphore</li> </ul>		
<b>Unit 6: Navigation</b>	<b>01 Marks</b>	<b>01 Periods</b>
<ul style="list-style-type: none"> <li>• Uses of Maps and Charts and Its</li> <li>• Purpose, Introduction to Map</li> <li>• Reading and Navigation Aids to Include GPS</li> </ul>		
<b>Unit 7: Seamansbship</b>	<b>06 Marks</b>	<b>11 Periods</b>
<ul style="list-style-type: none"> <li>• Rigging, Cordage and Wire Ropes, Rope</li> <li>• Work Terms, Preparation Ropes for use, Bends and Hitches, Anchor and Anchor cable</li> </ul>		
<b>Unit 8: Ship and Boat Modeling</b>	<b>02 Marks</b>	<b>04 Periods</b>
<ul style="list-style-type: none"> <li>• Reading of a Ship Drawing of a Model, Practical Training on Static Models viz Preparation of Hull</li> <li>• Construction of Super Structure, Chemical Work and Finishing of a Model and Stability and Operation of a Model</li> </ul>		
<b>Unit 9: Military History</b>	<b>00 Marks</b>	<b>08 Periods</b>
<ul style="list-style-type: none"> <li>• Biographies of Military Leaders</li> <li>• Famous Battles</li> </ul>		
<b>Unit 10: Personality Development</b>	<b>00 Marks</b>	<b>10 Periods</b>
<ul style="list-style-type: none"> <li>• Factors Influencing/Shaping Personality</li> <li>• Physical, Social, Psychological and Philosophical</li> <li>• Self Awareness and Critical and Creative Thinking</li> </ul>		

- Communication Skills-Group Discussion
- Importance of Team Work, Character Building,
- Leadership Traits, Interview Skills
- Time Management

**Unit 11: National Integration, Civil Affairs Environment, Social Awareness & Community Development, health and Hygiene** **00 Marks**  
**16 Periods**

- Unity In Diversity
- National Integration and Its Importance
- Contribution of Youth In Nation Building

**Civil Affairs**

- Disaster Management
- Fire Fighting
- Vigilance Awareness
- Civil Defence Organization and Its Duties
- Types Of Emergencies / Natural Disasters
- Role Of NCC during Natural Hazards

**Environment Awareness**

- Conservation of Environment and Ecology
- Pollution and Its Control
- Wildlife Conservation

**Social Awareness and Community Development**

- Drug Abuse and Trafficking, HIV and AIDS
- Cancer Awareness, Adult Education
- Traffic Control
- Evils - Female Foeticide, Abuse, Dowry

**Health and Hygiene**

- First Aid in Common Medical Emergencies
- Hygiene and Sanitation
- Preventable Diseases
- Dressing of Wounds
- Physical and Mental Health

## ELIGIBILITY CONDITIONS FOR CERTIFICATE EXAMINATIONS

### 'A' CERTIFICATE

1. All NCC cadets in Junior Division, on successful completion of their two years training and having passed Part 'A' examination conducted by respective NCC units, are issued NCC 'A' Certificate. The certificate examination comprises of a written and practical test. Cadets to be eligible to appear in the certificate examination must fulfill the following conditions.
  - (a) The cadet should be on the roll of NCC unit/sub unit.
  - (b) The cadet should have attended a minimum of 75% of total training periods laid down in the syllabus for the first and second years of Junior Division/ Wing, NCC (All Wings).
  - (c) Attended one Annual Training Camp of JD/JW.
  - (d) Break in the NCC training of the cadet prior to appearing in the examination should not exceed more than 12 months at one time, to count his previous training period. In case the break exceeds 12 months and the cadet has been on the unit rolls for a minimum of two years before his discharge and had attended 75% of the total period during his NCC service; he/she will need another 45 periods in the year he/she is appearing for the examination.

### 'B' CERTIFICATE

2. All NCC cadets in Senior Division on successful completion of their two years training and having passed Part 'B' examination conducted by respective NCC units are issued NCC 'B' Certificate. The certificate examination comprises a written and practical test. Cadets eligible to appear in the certificate examination must fulfill the under mentioned conditions:-
  - (a) The cadet must have attended a minimum of 75% of total training period laid down in the syllabus for the first and second years for Senior Division/ Wing NCC (All Wings).
  - (b) Break in the NCC service of the cadet SD/SW prior to appearing in the 3rd exam should not exceed more than 18 months at one time, after his/her discharge to count his service for certificate 'B' examination.
  - (c) Must have attended one Annual Training Camp of Senior Division.
  - (d) Cadets possessing 'A' certificate are awarded 10 bonus marks.

## NOTICE

1. NCC as an Elective Subject will be available to those schools where NCC already exists. It will be available as per existing strength.
2. Schools wishful of applying for allotment of NCC must apply to the nearest NCC Unit and not to CBSE. NCC will be allotted as per seniority as per provisions of NCC Act and Rules, 1948.

## ROCEDURE FOR ALLOTMENT OF NCC TO SCHOOL/ COLLEGE

1. Any school or college which is desirous of having a NCC unit/ sub unit in their institution has to apply for the same through the nearest NCC unit covering the given geographical area. The application format is as per appendix `A' att.
2. The terms and conditions for raising a senior division coy/ junior division troop are listed at paragraph 9 to 12 of the application form.
3. Since the numbers of vacancies authorized to each NCC unit are fixed, the allotment will depend on availability of vacancies. Otherwise the institution will be placed on waiting list of the given NCC unit and allotted as per waiting list seniority.
4. The approval for allotment of NCC to institutions is approved at state NCC Directorate for intern allotments. Out of turn allotment is approved only by Director General NCC, only in exceptional cases.

## APPLICATION FORM FOR RAISING OF SENIOR DIVISION NCC SUB UNIT/JUNIOR DIVISION TROOP (ARMY WING)

1. (a) Name of Institution :  
(b) Funded by : Central Government/State Govt. aided/  
Self financing
2. Department of Education under :  
whom functioning .
3. Number of NCC unit/ Coays Troop (if any)  
already functioning in the institution :
4. Name of NCC unit to which affiliated  
(if applicable) :
5. Nearest NCC unit/ sub unit (if known) :
6. Number of NCC units/Coys/Troops  
Desired to be raised/ allocated (and its  
Cadet Strength) :



	Boys	Girls	Total
11th / 1 <sup>st</sup> Year (CBSE)			
12th / 2 <sup>nd</sup> Year (CBSE)			
3rd Year (Under Graduate Courses)			
<b>Total</b>			
<b>For Junior Division</b>			

7. Total number of students in the college/ : \_\_\_\_\_

10th Class (Optional Subject)			
<b>Total</b>			

8. Names(s) of Lecturer(s)/Teachers(s) : \_\_\_\_\_  
 recommended for pre-commissioned  
 training in case NCC unit/Coy/Troop  
 is raised/ allocated, State educational  
 qualifications and Appointment.

**Conditions for raising a Senior Division NCC Unit/  
 Coy or Junior Division Troop NCC:**

9. A Unit/Coy/Troop or part thereof of the Senior/ Junior Division is raised in a College/ School subject to the following conditions:-
- (a) The college/ school shall provide from among the members of its staff NCC officers for the unit/coy/ troops at the scales prescribed in Peace Establishment.
  - (b) The college/ school shall give an undertaking that it can enroll and maintain up to strength of unit/ coy/ troop or part thereof, which may be allotted to it.
  - (c) The college/ school shall provide for the unit/ coy/ troop or part thereof, which may be allotted to it, a storeroom for the storage of clothing and equipment and an office room for the unit/ coy/ troop office.
  - (d) The college/ school shall provide a suitable miniature rifle range or arrange to obtain the use of such a miniature rifle range.
  - (e) The college/ school shall be in a position to supplement from its own funds the financial grants made by the State Government for the unit/ coy / troop or part thereof which may be allotted to it.
  - (f) The college/ school shall be in a position to provide the services of a lascar as per

authorization of Peace Establishment for smooth conduct of NCC activities (For Self-financing institutions).

10. Provided that the State Government may, in any case, relax wholly or in part the provision of clause  
(e) or if it is satisfied that the requisite facilities are provided by schools located in the same place, the provisions of clause (c) and (d).

**11. Declaration by Head of Institution**

- (a) I hereby declare that the raising of a troop in my college/ school will be subject to the conditions stipulated in Rule 3 (in respect of Senior Division) and in Rule 4 (in respect of Junior Division) of the NCC Act and Rules (Boys) and Rule 3 of NCC Act and Rules (Girls Division) and I will not request for withdrawal of NCC before ten years.
- (b) I further declare that the college/ school will ensure the following:-
  1. Enrolment of cadets to the maximum required strength and to maintain the same consistently during the training session.
  2. Regular attendance of cadets on parade up to the required percentage lay down.
  3. Regular attendance in camps of NCC Cadets and NCC Officer(s) of the college/ school.
  4. Maintenance of proper discipline of NCC Officers and NCC Cadets.
  5. Safeguards to ensure NCC cadets of my Institution return all NCC stores, equipment and clothing issued to them for training before they withdraw/ leave the institution or give up NCC.
  6. Accommodation as required will be provided for office storeroom and strong room.
  7. Arrangement for medical examination of cadets will be made.
12. In the event of any unsatisfactory performance as regards the points referred to in Para 11 above the NCC unit/ coy/ troop will be liable to be disbanded or re-allotted/ transferred to another college/ school at the discretion and decision of the Deputy

**Director General of NCC.**

Place: Signature of the Head of Institution

Date: (Name in Block Letters)

13. Recommendation of the OC Unit to which the proposed Unit/ Coy/ Troop is to be affiliated.

Confirming that the financial commitments vide SNCCO 1/S/65 has been accepted by the Institution and Sponsor.

Place: Signature

Date: (Name in Block Letters)

14. Recommendation of the NCC Group Commander.

Place: Signature  
Date: (Name in Block Letters)

15. Specific recommendation of the Deputy Director General of NCC.

Covering prospects of response to cadet to take training facilities, radius of action/ distances, availability of official and domestic accommodation, administrative feasibility.

Place: Signature  
Date: (Name in Block Letters)

16. Recommendations of State Government/ Sponsor. The financial commitment as laid down in the Model Budget in respect of the State Government/ Sponsor's responsibility is accepted as amended from time to time.

Place: Signature  
Date: (Competent State Govt Official/  
Concerned Ministry Official/  
Sponsor)

Note: In the event of a private Institution, this commitment will be accepted by the Head of the Private Institution.

## (C) COMMERCE

**Note:** Any one of the following three areas can be offered:

- I. Elements of Business  
or
- II. Elements of Book Keeping and Accountancy  
or
- III. e-Typerwriting

### (I) ELEMENTS OF BUSINESS (CODE NO. 154)

#### Objective:

The objective of this paper is to provide elementary knowledge of the different aspects of business.

- As per CCE guidelines, the syllabus for Elements of Business for classes IX & X has been divided term-wise.
- The units specified for each term shall be assessed through both Formative and Summative assessments.
- In each term, there will be two Formative assessments with each carrying a 10% weightage.
- The Summative assessment in the first term will carry 30% weightage and the Summative assessment in the second term will carry 30% weightage.
- Formative assessments during the academic session may take the form of class tests, assignments and Projects.

#### CLASS-IX

One Paper

3 Hours

90 Marks

270 Periods

Term I		Marks	Periods
I.	Introduction to business	10	15
II.	Trade and Auxiliaries to trade	30	40
III.	Forms of Business Organisations	50	65
IV.	Project	10	15
	<b>Total</b>	<b>100</b>	<b>135</b>
Term II		Marks	Periods
IV.	Transport	30	40
V.	Banking	30	40
VI.	Saving and Investment	30	40
	Project	10	15
	<b>Total</b>	<b>100</b>	<b>135</b>

## TERM I

	Contents	Learning Outcomes
I	<p>Introduction to business</p> <p>(a) Human activities Meaning and Types: Economic and Non-economic activities</p> <p>(b) Business activities: Meaning and Types: Industry and Commerce Business- meaning and features, e-business- Meaning and benefits</p> <p>(c) Not for profit organisations- meaning</p>	<p>The learner would be able to:</p> <ul style="list-style-type: none"> <li>• Understand the meaning of human activities</li> <li>• Differentiate between economic and non- economic activities</li> <li>• Understand the meaning of business activities</li> <li>• Explain the different types of business activities</li> <li>• Give the meaning of industry and commerce</li> <li>• Explain the concept of business</li> <li>• Understand the meaning of e-business</li> <li>• Appreciate the importance of e-business</li> <li>• Give the meaning of not for profit organizations</li> <li>• Differentiate between profit-making and not for profit organisations</li> </ul>
II	<p>Trade and Auxiliaries to trade</p> <p>(a) Trade-Wholesale and retail - meaning, functions of wholesaler and retailer.</p> <p>(b) Auxiliaries to trade: Insurance, transportation, warehousing, banking, communication and advertising - meaning.</p>	<p>The learner would be able to:</p> <ul style="list-style-type: none"> <li>• Give the meaning of trade and auxiliaries to trade</li> <li>• Differentiate between the concepts of wholesale and retail trade</li> <li>• State the functions of wholesaler and retailer</li> <li>• Give the meaning of insurance, transportation, warehousing, banking, communication and advertising</li> </ul>
III	<p>Forms of Business Organisations</p> <p>Sole proprietorship- meaning and features.</p> <p>Partnership- meaning and features.</p> <p>Hindu Undivided family- meaning and features.</p> <p>Company - meaning and features.</p>	<p>The learner would be able to:</p> <ul style="list-style-type: none"> <li>• Understand the concept of 'Forms of business organisations'</li> <li>• Give the meaning of sole proprietorship, partnership and a company</li> <li>• State the features of sole proprietorship, partnership and a company</li> </ul>

**TERM II**

	<b>Contents</b>	<b>Learning Outcomes</b>
I	Transport Rail, road, sea and air transport- features, advantages and limitations.	The learner would be able to: <ul style="list-style-type: none"> <li>• Enumerate the different modes of transport</li> <li>• Highlight the importance of transport business</li> <li>• State the features of rail, road, air and sea transport</li> <li>• Give transport the advantages of different modes of transport</li> <li>• Give the limitations of different modes of transport</li> </ul>
II	<b>Banking</b> Commercial banks- meaning and functions Bank Deposit accounts -types Opening and operating of Savings Bank Account.	The learner would be able to: <ul style="list-style-type: none"> <li>• Give the meaning of commercial banks</li> <li>• Explain the functions commercial banks</li> <li>• Differentiate between the different types of bank accounts</li> <li>• Open and operate a savings bank account</li> </ul>
III	<b>Saving and Investment</b> Sources of income, spending money wisely need for savings, avenues of investments	The learner would be able to: <ul style="list-style-type: none"> <li>• Give the meaning of savings</li> <li>• Understand the need for savings</li> <li>• Identify the different sources of income</li> <li>• Make judicious use of income</li> <li>• Identify the different avenues of investment</li> </ul>

**PROJECT WORK- IX**

**Terms I**

**15 Periods**

**10 Marks**

**(Select any one)**

1. Prepare a project on the history, development and types of any one auxiliary to trade (Insurance, transportation, warehousing, banking, communication and advertising) and also link it to the present style of business.

(OR any other topic that the teacher deems fit for the term related to the course content)

2. Visit a wholesale and retail outlet, study the differences in their approach and present it in a project.

(OR any other topic that the teacher deems fit for the term related to the course content)

**TERM II**

**15 Periods**

**10 Marks**

**(Select any one)**

1. Prepare a project on different types of banks.

(OR any other topic that the teacher deems fit for the term related to the course content)

2. Prepare a project on different kinds of services provided by banks.

(OR any other topic that the teacher deems fit for the term related to the course content)

## CLASS-X

One Paper

90 Marks

70 Periods

Term I		Marks	Periods
I	Company	30	40
II	Sources of Business Finance	30	40
III	Communication in Business Organisations	30	40
	Project	10	15
	<b>Total</b>	<b>100</b>	<b>135</b>
Term 11		Marks	Periods
III	Selling and Distribution	30	40
IV	Large scale Retail Trade	30	40
V	Selling	30	40
	Project	10	15
	<b>Total</b>	<b>100</b>	<b>135</b>

### TERM I

	Contents	Learning Outcomes
I	<p>Company Private and Public company: meaning and Features. Multinational companies: meaning and features</p>	<p><b>The learner would be able to:</b></p> <ul style="list-style-type: none"> <li>• Recall the meaning of a company</li> <li>• Understand the meaning of private and public company</li> <li>• State the features of private and public company</li> <li>• Give the meaning of a Multinational Company</li> <li>• State the features of a Multinational Company</li> </ul>
II	<p><b>Sources of Business Finance</b> Sole proprietor, partnership firm: sources Company: Owners funds and borrowed funds</p>	<p><b>The learner would be able to:</b></p> <ul style="list-style-type: none"> <li>• Identify the need for business finance</li> <li>• List the different sources of business finance</li> <li>• Identify the sources of business finance for sole proprietorship, partnership firm and a company</li> <li>• Distinguish between owners funds and borrowed funds</li> </ul>

III	<b>Communication in Business Organisations</b> Meaning and methods: letter, e-mail, video conferencing, telephonic conversation	<b>The learner would be able to:</b> <ul style="list-style-type: none"> <li>• Recall the meaning of communication</li> <li>• Mention the different modes of communication</li> <li>• Distinguish between a letter and an email</li> <li>• Distinguish between telephonic conversation and video conferencing</li> </ul>
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## TERM II

	Contents	Learning Outcomes
I	<b>Selling and Distribution</b> (a) Concept of purchase and sale (b) Types - Cash, Credit, Hire Purchase System and Instalment Payment System (c) Documents used in the process of purchase and sale- quotation, invoice, debit note, credit note, accounts sales, delivery note.	<b>The learner would be able to:</b> <ul style="list-style-type: none"> <li>• Explain the concept of purchase and sale</li> <li>• List the different methods of payment</li> <li>• Explain the meaning and features of different methods of payment</li> <li>• Identify the documents used in the process of purchase and sale</li> </ul>
II	<b>Large scale Retail Trade</b> (a) Forms of large scale retail trade - Departmental Store and Multiple shops (b) Non-store retailing- Mail order business, teleshopping, automated vending machines, selling through internet.	<b>The learner would be able to:</b> <ul style="list-style-type: none"> <li>• Recall the meaning of retail trade</li> <li>• Explain the meaning of large scale retail trade</li> <li>• Differentiate between Departmental stores and Multiple shops</li> <li>• State the features of Mail order business, teleshopping, automated vending machines, elling through internet</li> </ul>
III	<b>Selling</b> (a) Personal Selling- meaning and importance (b) Sales promotion -meaning and techniques (c) Advertising- meaning, importance and media of advertising.	<b>The learner would be able to:</b> <ul style="list-style-type: none"> <li>• Understand the meaning of ‘Promotion’</li> <li>• Explain the meaning of ‘Personal Selling’</li> <li>• Appreciate the importance of ‘Personal selling’</li> <li>• Explain the meaning of ‘Sales promotion’</li> <li>• Identify the different techniques of sales promotion</li> <li>• Explain the meaning of ‘Advertising’</li> <li>• Mention the different media of advertising</li> <li>• Appreciate the importance of advertising</li> </ul>



## PROJECT WORK-X

**TERM I**

**15 Periods    10 Marks**

**(Select any one)**

1. Prepare a project to show the advantages of different means of communication (letter, e-mail, telephonic conversation and video conferencing).  
(OR any other topic that the teacher deems fit for the term related to the course content)
2. Prepare a project on the difference between:
  - i. Letter and an e-mail
  - ii. Telephonic conversation and video conferencing(OR any other topic that the teacher deems fit for the term related to the course content)

**TERM II**

**15 Periods    10 Marks**

**(Select any one)**

1. Prepare a project on the difference between Personal Selling and Sales Promotion.  
(OR any other topic that the teacher deems fit for the term related to the course content)
2. Prepare a project on the use of different media for advertising.  
(OR any other topic that the teacher deems fit for the term related to the course content)

## (II) ELEMENTS OF BOOK-KEEPING AND ACCOUNTANCY

### (CODE NO. 254) CLASS-IX

Objective: The main objective of this paper is to enable the student to understand the fundamental principles and to develop skills of preparing and maintaining simple accounts books, and records from given details.

One Paper

3 Hours

90 Marks

270 Periods

Unit	Term I	Marks	Periods
1	Introduction to Book Keeping and Accounting.	20	30
2	Accounting Equating effects.	20	30
3	Nature of Accounts and Rules for debit and credit	20	30
4	Journal	30	30
	Project	10	15
	<b>Total</b>	<b>100</b>	<b>135</b>
	Term II	Marks	Periods
5	Ledger	30	40
6	Recording and posting of cash transactions	30	40
7	Trial Balance	30	40
	Project	10	15
	<b>Total</b>	<b>100</b>	<b>135</b>

#### TERM I

Unit 1 : Introduction to Book keeping and Accounting

30 Periods 20 Marks

Content	Learning Outcomes
Introduction to Book Keeping and Accounting: Need, objectives, advantages	<b>The learners would be able to:</b> <ul style="list-style-type: none"><li>• Identify the need of Book Keeping</li><li>• Understand the Objectives of Book Keeping</li><li>• Appreciate the advantages of Book Keeping</li><li>• Describe the meaning, objectives and advantages of accounting</li></ul>

Unit 2 : Accounting Equating effects

30 Periods 20 Marks

Content	Learning Outcomes
Accounting Equating effects: Business entity Concept, dual aspect of transaction and the accounting equation, effect of transaction on accounting equations.	<b>The learners would be able to:</b> <ul style="list-style-type: none"><li>• Understand the importance of business entity concept</li><li>• Explain the concept of accounting equation and appreciate that every transaction affects the equation</li></ul>

Unit 3 : Nature of Accounts and Rules for Debit and Credit

30 Periods 20 Marks

Content	Learning Outcomes
Nature of Accounts and Rules for debit and credit: Classification of accounts, rules for debit and credit, preparation of vouchers and supporting documents(Bills, cash memo, debit note, credit note).	<p><b>The learners would be able to:</b></p> <ul style="list-style-type: none"> <li>• Understand the classification of accounts</li> <li>• Explain the rules of debit and credit</li> <li>• Apply the rules of debit and credit</li> <li>• Prepare the vouchers with the help of supporting documents</li> </ul>

Unit 4 : Journal

30 Periods 20 Marks

Content	Learning Outcomes
Journal: Need for journal, journal entries (no compound entries), subsidiary books (cash book, purchase book, sales book, purchase return book, sales return books and journal proper)	<p><b>The learner would be able to:</b></p> <ul style="list-style-type: none"> <li>• Understand the need for journal</li> <li>• Develop the understanding of recording of transactions in journal</li> <li>• Explain the importance of preparing subsidiary books</li> </ul>

**TERM II**

Unit 5 : Ledger

40 Periods 30 Marks

Content	Learning Outcomes
<p><b>Ledger:</b> Definition and importance, relation between journal and ledger. Meaning of posting, guiding rule for posting transactions, balancing of accounts.</p>	<p><b>The learner would be able to:</b></p> <ul style="list-style-type: none"> <li>• Explain the concept of ledger and its importance in accounting process</li> <li>• Appreciate the relationship between journal and ledger</li> <li>• Develop and understanding for posting of transactions and balancing of accounts</li> <li>• Explain the meaning of posting</li> <li>• Understand the application of guiding rule for posting transactions</li> </ul>

Unit 6 : Recording and Posting of Cash Transaction:

40 Periods 30 Marks

Content	Learning Outcomes
Recording and posting of cash transactions: Necessity of cash book and its preparation. Simple cash book and cash book with cash and discount column. Petty cash book and imprest system.	<p><b>The learners would be able to:</b></p> <ul style="list-style-type: none"> <li>• Explain the purpose of maintaining a cash book</li> <li>• Develop the skill of preparing the format of different types of cash books</li> <li>• Understand the method of recording cash transactions in simple cash book, double column cash book (cash book with cash and discount column) and petty cash book</li> </ul>

	<ul style="list-style-type: none"> <li>• Understand the concepts of petty cash book</li> <li>• Explain the purpose of maintaining petty cash book on imprest system</li> </ul>
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Unit 7 : Trial Balance

40 Periods 30 Marks

Content	Learning Outcomes
Trial Balance: Purpose and Preparation Only Balance Method; No suspense Account	<b>The learner would be able to:</b> <ul style="list-style-type: none"> <li>• State the need and objective of preparing trial balance</li> <li>• Develop the skill of preparing trial balance by balance method only</li> </ul>

### PROJECT WORK

**TERM I**

15 Periods 10 Marks

Prepare a pictorial/ verbal dictionary of accounting terms.

or

Prepare subsidiary books

or

Diagrammatic presentation of principles of accounting

[OR any other topic that the teacher deems fit for the term related to the course content]

**TERM II**

15 Periods 10 Marks

Prepare of a Cash Book of;

i. Your pocket money

ii. Help your parent to maintain one month cash statement

[OR any other topic that the teacher deems fit for the term related to the course content]

## CLASS-X

**Objective:** The main objective of this paper is to enable the student to understand the fundamental principles and develop skills of preparing and maintaining simple accounts books, and records from given details.

One Paper

3 Hours

90 Marks

270 Periods

Unit	Term I	Marks	Periods
1	Capital and Revenue.	20	30
2	Depreciation.	30	40
3	Bank Reconciliation Statement	40	50
	Project	10	15
	<b>Total</b>	<b>100</b>	<b>135</b>
	<b>Term II</b>		
4	<b>Bills of Exchange</b>	<b>20</b>	<b>30</b>
5	Final Accounts	40	50
6	Accounting from Incomplete Records	30	40
	Project	10	15
	Total	100	135
	<b>Total</b>	<b>100</b>	<b>135</b>

### TERM I

Unit 1 : Capital and Revenue

30 Periods 20 Marks

Content	Learning Outcomes
Capital and revenue: Capital and revenue receipts, capital and revenue expenditure and deferred revenue expenditure.	<p><b>The learners would be able to:</b></p> <ul style="list-style-type: none"> <li>• Recapitulate the meaning of the terms 'Capital' and 'Revenue'</li> <li>• Appreciate the difference between capital and revenue receipts and capital and revenue expenditure</li> <li>• Acquire the knowledge about deferred revenue expenditure</li> </ul>

Unit 2 : Depreciation

30 Periods 20 Marks

Content	Learning Outcomes
Depreciation: Need and methods- Straight line and Diminishing balance method. [No change in the method ]	<p><b>The learners would be able to:</b></p> <ul style="list-style-type: none"> <li>• Explain the necessity of providing depreciation on fixed assets</li> <li>• Develop the skills of using the two different methods i.e straight line and diminishing balance for computing depreciation</li> </ul>

## Unit 3 : Bank Reconciliation Statement

30 Periods 20 Marks

Content	Learning Outcomes
Bank Reconciliation Statement: Meaning; Preparation of BRS with the given Bank Ledger and pass book	<p><b>The learners would be able to:</b></p> <ul style="list-style-type: none"> <li>• Understand the concept of bank reconciliation statement</li> <li>• Appreciate the need of preparing bank reconciliation</li> <li>• Develop understanding of preparing bank reconciliation statement</li> </ul>

## TERM II

## Unit 4 : Bills of Exchange

30 Periods 20 Marks

Content	Learning Outcomes
Bills of Exchange: Nature and use of Bills of Exchange, Terms used in Bills of Exchange. [No Journal; Only Theory]	<p><b>The learners would be able to:</b></p> <ul style="list-style-type: none"> <li>• Acquire the knowledge of using bills of exchange for financing business transactions</li> <li>• Understand the need of Bills of exchange in business</li> <li>• State the meaning of different terms used in bills of exchange and their implication in accounting</li> </ul>

## Unit 5 : Final Accounts

50 Periods 40 Marks

Content	Learning Outcomes
Final Accounts: Preparation of Trading and Profit and loss Account and Balance Sheet of Sole trader. Adjustment for closing stock only.[amount of closing stock to be given]	<p><b>The learners would be able to:</b></p> <ul style="list-style-type: none"> <li>• State the meaning of financial statements &amp; the purpose they serve for a sole proprietor</li> <li>• Develop the skill of preparing Trading Account and calculating Gross Profit</li> <li>• Develop the skill of preparing profit and loss account and calculating the net profit</li> <li>• Explain the need for preparing 'Balance Sheet'.</li> <li>• Understand the techniques of preparing the 'Balance Sheet'</li> <li>• Develop the understanding to do the simple adjustment for closing stock</li> </ul>

Content	Learning Outcomes
Accounting from Incomplete Records: Meaning; preparation of statement of Profit, statement of affairs. [statement of affairs method only]	<b>The learner would be able to:</b> <ul style="list-style-type: none"> <li>• State the meaning of incomplete records</li> <li>• Understand the uses and limitations of incomplete records</li> <li>• Develop the skill of computation of profit/ loss by preparing Statement of Profit</li> <li>• Develop the skill of preparing ‘Statement of Affairs’ and to know the position of business on a particular state</li> </ul>

**PROJECT WORK****TERM I****15 Periods****10 Marks**

Identify 20 items and classify them as capital and revenue receipts, capital and revenue expenditure and deferred revenue expenditure

[OR any other topic that the teacher deems fit for the term related to the course content]

**TERM II****15 Periods****10 Marks**

Make a statement of affairs for incomplete records of a small shop.

[OR any other topic that the teacher deems fit for the term related to the course content]

## **e- Publishing and e-Office (Code No. 354/454)**

### **Learning Outcomes**

- Awareness of software in open domain and their licensing Scheme
- Awareness of ethical practices in computing
- Awareness of Cyber Security and Netiquette
- Understanding of internet operations & Web applications
- Understanding various components of computer system including peripherals of different types
- Ability to demonstrate creation of tables and integrating with (word documents) e-publishing operations
- Ability to use image creation and editing tools
- Ability to demonstrate touch typing with speed and accuracy on different layouts, e.g. QWERTY and INSCRIPT
- Ability to demonstrate conversions of various file format and creating UNICODE compliant documents

### **Note:**

This Paper has been divided in two parts i.e. theory and practical. The division of marks of theory and practical is as given below:

Theory	30 Marks
Practical	70 Marks
Total	100 Marks

1. As per CCE guidelines the syllabus for e-Publishing & e - office -English/Hindi for classes IX and X has been divided term wise.
2. The units specified for each term shall be assessed through both formative and summative assessments.
3. In each term, there will be two formative assessments with each carrying a 10% weightage.
4. The summative Assessments in the first term and second term will carry 30% weightage for each term.
5. In both summative assessments I and II, there will be on theory paper of 30% marks of 2 hours duration and one practical paper of 70 marks of 1 hour duration.
6. The formative Assessments 1 & 2 for the first term and formative assessment 3 & 4 for the second term will include assignment, observation, Viva/oral test and practical.



**Class IX - Term I****Maximum Marks: 30****Periods:30**

		Marks	Periods	Th. Pds.	Pr. Pds.
1.	Introduction to Computing	12	8	2	6
2.	Efficient e- typing	8	7	2	5
3.	Introduction to Word Process- ing	10	15	5	10
	<b>Total</b>	<b>30</b>	<b>30</b>	<b>9</b>	<b>21</b>

**Class IX- Term II****Maximum Marks:30****Periods:30**

		Marks	Periods	Th. Pds.	Pr. Pds.
4.	Software in Open domain	6	3	2	1
5.	Ethical Practice	2	3	1	2
6.	Creating and editing image and text document	12	10	3	7
7.	Working with spreadsheet	10	14	3	11
	<b>Total</b>	<b>30</b>	<b>30</b>	<b>9</b>	<b>21</b>

**Class IX- Term I****Theory****Maximum Marks: 30****1. Introduction to Computing** **12 marks**

- 1.1 Understanding hardware- Starting and shutting down Computer and Printer: Steps to switch on and switch off a computer; Difference between Turn Off, Stand By, Hibernate, and Restart.

Characteristics of Computer, components of computer system - CPU, Memory, Storage Devices (Pen-drive, memory stick, CD - ROM and DVD) and I/O Devices (Input devices: Keyboard, mouse. Output devices: monitor, printer)

Encoding Schemes; ASCII and UNICODE

**1.2 Keyboard Layout**

Types of Keyboards - Physical Keyboards & Virtual Keyboard, Wireless & Wired Keyboard, Standard and Multimedia Keyboard

QWERTY Keyboard Layout: General Keys, Function Keys, Lock Keys, Lock indicators (Lights), Cursor Control Keys, Numeric Keys, Numeric Keypad. Phonetic Keyboarding for non English script.

Setting for Keyboard layouts and language variations.

INSCRIPT Keyboard Layout: importance of INSCRIPT Keyboard, Concept of using standard QWERTY keyboard with INSCRIPT overlay as at <http://tdil.mit.gov.in/ischiichart.pdf>.

[Students may be encouraged to find out other relevant keyboard layouts for Indian language processing]

- 2. Efficient e- Typing** **8 marks**
- 2.1 Ergonomics: Layout, Correct sitting posture, Position of Keyboards, Mouse and Monitor.
- 2.2 Methods of Typewriting
- 2.2.1 Touch Methods of Typewriting
- 2.2.2 Sight Method of Typewriting  
(Advantages and Disadvantages of both the methods)
- 2.3 Positioning of fingers on the Keyboard according to touch method of Typewriting.
- 2.4 Use of Touch Typing Tutor Software (Online and Downloadable; Freeware and Open Source Software) for practice.
- 2.5 Tips for higher efficiency (Speed And Accuracy)  
[Students may be encouraged to attain e-typing skills for an Indian language up to 5w/min]
- 3. Introduction to Word Processing (such as Writer)** **10 marks**
- 3.1 Creating, Saving and Opening a document in a Word Processor such as Writer.
- 3.2 Text styles (Bold, Italic, and Underline); Selecting Font Faces, Size and Color. Installing and using non-English fonts.
- 3.3 Unicode: compliant Fonts, Font Convertors
- 3.4 Text Alignment, Automatic Page Numbering with or without header and footer, Cut-Copy-Paste, Undo and Redo.
- 3.5 Preview & Printing a document with different features  
(page range, copies, page per sheet, scale to paper size)
- 3.6 Settings for page layout variations.

### Class IX - Term II

- | Theory  | Maximum Marks:30 |
|---|------------------|
| <p><b>4. Software in Open domain</b></p> <p>Open Source Software, Features, Shareware, Role of OSS in Education for Creativity promotion, Licensing scheme, Copywriting, GPL (General Public License)</p>   | <b>6 marks</b>   |
| <p><b>5. Ethical Practices in Computing</b></p> <p>Email etiquettes - proper structure and layout, case sensitivity, Disclaimer to email care with abbreviations and emotions, Gender sensitivity, refrain from copyright violation and piracy etc.</p> | <b>2 Marks</b>   |
| <p><b>6. Creating and editing image and text documents (GIMP)</b></p>   | <b>12 marks</b>  |

- 6.1 The Toolbox: Introduction, Tools Icons, Color and Indicator Area, Tool Options, Selection Tools
  - 6.2 Selection Features: Rectangle Selection, Ellipse Selection, Free Selection (Lasso), Fuzzy selection (Magic wand), Select By Color, Intelligent Scissors, Foreground Select
  - 6.3 Paint Tools: Brush Tools (Pencil, Paintbrush, Airbrush), Bucket Fill, Blend, Pencil, Paintbrush, Eraser, Airbrush, Ink, Clone, Heal, Perspective Clone, Blur/Sharpen, Smudge, Dodge/Burn
- 7. Working with spreadsheets (such as CALC may be used). 10 marks**
- 7.1 Creating, Saving & Opening a Spreadsheet
  - 7.2 Selecting Cells and Ranges
  - 7.3 Entering Numbers & Text in Spreadsheet
  - 7.4 Simple Arithmetic Operations (+, -, \*, /)
  - 7.5 Copying Data from Spreadsheet into a Word Processing Document

## **PRACTICAL WORK**

Class IX

**Term I 70 marks**

- 1. Introduction to computing: components and operations**
  - a. Demonstrate how to start and shut down the computer.
  - b. Use of various input, output and storage devices.
  - c. Getting fingers on the Keyboard and practicing each row of the keyboard. (Home, Upper, Bottom, and Number Rows), Practicing Numeric Keypad, Using Touch Typing Tutor Software.
  - d. Practicing on both QWERTY and INSCRIPT keyboard layout and language variations.

**2. Efficient e-Typing**

Calculating of Gross (Running) Speed and Accuracy

Calculating of Net (Accurate) Speed and Accuracy

The Purpose of assignment file extends much beyond the formality. The Assignment file should reflect and measure a student's continual improvement in e-Publishing & e-Office. An Assignment file must contain one document per month (in total 3 documents per term). Every month, an initial document without carrying out correction is to be kept in the file which will be known as initial document. The same documents must be duly signed by the instructor. (Private candidate may put self-attested test document)

## Self - Assessment

	Term 1			Term 2		
	Month 1	Month2	Month3	Month 1	Month 2	Month 3
Speed						
Accuracy						

An additional analysis report at the end of the school term may be prepared by each student in the following format with self assessment of speed and accuracy.

### 3. Document preparation : Create a document with the following features:

- 1) Word Processing Text Styles (B,I,U)
- 2) Selecting Font, Size and Color, Font Conversion
- 3) Text alignment
- 4) Automatic Page Numbering, Cut-Copy-Paste, Word-Count, Preview and printing of documents

### Sample Case Studies

- a) Green chilly multi cuisine restaurant is creating a new branch in west extension of the city. Design a menu card highlighting the cuisine and the dishes with their prices.
- b) Hakeem Pharmaceutical Company is located at Arya Nagar Dehradun. Design a sample visiting card for a Medical Representative. Make 5 copies of the card on A4 sheet.
- c) Design a refreshment coupon for all the participants of Techno Fest organized by the school. Replicate as many copies of the coupon on A4 sheet to save the paper.

### Term II

70 marks

### 4. Demonstrating various open office softwares

Visit <http://www.openoffice.org> and explore and install the open office softwares specifically CALC and Writer. Take a simple example and re-write the program for an Indian language so as to incite for creative programming.

### 5. Ethical Practices:

- 1) Identify cases of violation of ethical practices.

### 6. Image Creation and editing with the help of following tools:

- 2) Selection Features: Rectangle Selection, Ellipse Selection, Free Selection (Lasso), Fuzzy selection (Magic wand), Select By Color, Intelligent Scissors, Foreground Select
- 3) Paint Tools: Brush Tools (Pencil, Paintbrush, Airbrush), Bucket Fill, Blend, Pencil, Paintbrush, Eraser, Airbrush, Ink, Clone, Heal, Perspective Clone, Blur/Sharpen, Smudge, Dodge/Burn

### Sample Case Studies:

- (a) Pick an image of an automobile. Delete the picture back ground using selection tools. Insert the edited picture in word processing software and write its specifications.
  - (b) Design a Rangoli (Replication of Geometrical Patterns) using refreshment coupon for all the participants of techno fest organized by the school. Replicate as many copies of the coupon on A-4 sheet to save the paper.
- 7 Spreadsheet Preparation :Using Arithmetic Operations ( +, -, \*/) and inserting spreadsheet into word document.

### Sample Case Studies:

- a) Prepare a Report Card with the following information
  - School Name
  - Name of the student
  - Roll no
  - Class and SectionIt should also comprise of following column heads
  - Name of the Subjects
  - Highest marks scored in the class
  - Maximum marks
  - Marks scored by the student

Use arithmetic operators and cell addresses

1. To compute the total marks obtained
  2. Compute the percentage in each subject
  3. Find the difference between the highest marks scored in the class and the marks scored by the student in each Subject.
- b) Prepare a Weather Forecast Report with the following headings
    - Name of a city
    - Maximum temperature of the weeks of the month
    - Minimum temperature of the weeks of the month
    - Find the difference between maximum and minimum temperature of each week
    - Find average maximum temperature of the month
    - Find average minimum temperature of the month

### Project

Project is initiated in class IX and continues to class X.

	Practical File	Hands on Experience and Viva	Total
Term 1	20	50	70
Term 2	20	50	70

Class - X Term - I

Unit No.	Title of the unit	Marks	Periods	Th	Pr
1.	Internet as Web Resource	10	10	3	7
2.	Word Processing (Advanced)	15	15	4	11
3.	File Formats and Conversions	5	5	2	3
	<b>Total</b>	<b>30</b>	<b>30</b>	<b>9</b>	<b>21</b>

Class-X Term II

Unit No.	Title of the unit	Marks	Periods	Th	Pr
4.	Spreadsheet (Advanced)	10	10	3	7
5.	Working with Images and Texts (Advance)	12	12	3	9
6.	Network Security	3	3	2	1
7	<b>e-publishing</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>4</b>
	<b>Total</b>	<b>30</b>	<b>30</b>	<b>9</b>	<b>21</b>

Class-X Term I

S. No	Title of the Unit	Marks
1.	Internet as Web Resource	10
1.1	Browsers such as Chrome, Mozilla, Internet Explorer	
1.2	Protocol such as TCP/IP, FTP, PPP, Remote Login Protocol (TELNET)	
1.3	Electronic Mail: Create and email, sorting email, attachments (upload/download). Explore methods for e-mailing non-English documents	
1.4	Office Web Apps : Google docs/Sky drive Creation of (Folder, Document, Form, Spreadsheet)	
2	Word Processing Advanced Features (Writer)	15
2.1	Page-Setting (Size, Orientation and Margins), Setting Line Spacing & Paragraph Spacing. Inserting Special Characters and Symbols, Creating Bulleted & Numbered List, Inserting Pictures	
2.2	Using Find & Replace, Using Superscript & Subscript, Writing mathematical formulas and equations	
2.3	Creating a Table and Entering Data in it.	
2.4	Using Spell Check and Grammar Check, Adding Header and Footer.	
2.5	Using Mail Merge	

3.	File Formats And conversions	5
3.1	File Types in Writer/Calc Document	
3.2	Saving Writer/Calc as Pdf	
3.3	Import files frame call into Writer by using insert OLE objects.	
3.4	Online tools for converting PDF of doc./ .xls(such as www.zamzar.com)	
3.5	Online tools to convert Scanned text document (JPEG) to Writer/Cals(such as www.onlineocr.net	

Class-X Term II

S.no	Title of the Unit	Marks
4.	Spreadsheet Advanced (Features)	10
4.1	Relative referencing, Absolute Referencing, Mixed Referencing	
4.2	Usage of simple Statistical Functions: SUM(), AVERAGE(), MAX(), MIN(), IF function with range of values	
4.3	Embedding Charts of various types: Line, Pie, Scatter Bar and Area Chart.	
5.	Working with Images and Texts (GIMP)	12
5.1	Transform Tool: Align, Move, Crop, Rotate, Scale, Shear, perspective, Flip, The Cage Tool Color Tools: Color Balance. Hue-Saturation, Colorize, Brightness-Contrast, Threshold, Levels, Curves,	
5.2	Posterize, Desaturate	
5.3	Other: Paths, Color Picker, Zoom, Measure, Text	
6.	Network Security	3
6.1	Concepts: Cyber Law, Firewall, Cookies, Hackers and Crackers, Ethical Practices: Netiquettes	
6.2	Practice in on-line transactions such as online registration, net-banking, e-purchasing etc.	
6.3	Precautions in secured transactions	
7	e-Publishing	5
7.1	e-publishing: Publishing in older days, e-magazine, e-book, e-book: Book marks, Search, Read from, Read to , Page count, Indexing, Summary, Comparing two books. Book review.	
7.2	Digital Library: TIFF, GIT, JPGE	
7.3	e-office operations: Content capturing, Content Authoring, Work Flow, Archiving, Publishing, Indexing. Searching & retrieval, Versioning, Aging & retention, security, compression, reporting, Appointment.	
7.4	Collaborative Working e-office working etiquettes and ethical practices, advantages of e-office and application in e-governance.	

## PRACTICAL WORK Class X

Term II

70 marks

1) Internet as web resource:

- Create an email id on Google, upload an attachment and send email, download the attachment from the received email
- Demonstration of TCP/IP, FTP & Remote login Protocol.
- Web Apps

### Sample Case Studies

a. Write a Document on Google drive with a notice for cancellation of winter vacation and opening of school and share it with 5 students of your class.

b. Create a online registration form in Google drive to register the students for the competition to be held in school with the following information

S.No: Text

Name of the Student: Text

Date of Birth: Date

School Name: Paragraph Text

Tel. No.: Text

Event Name: Check Boxes

Gender: Choose from List

Participation in Surprise Event: Multiple Choice

Share it with the students of your class (using email IDs). Print the Spread sheet is created after filling the form.

2) **Document Preparation:**

Layout are required to be created with the following features:

1. Page-Setting, Setting Line Spacing & Paragraph Spacing.
2. Inserting Special Characters and Symbols inserting Pictures
3. Creating a Table and Entering Data in it
4. Adding Header and Footer, Creating Bulleted & Numbered List.
5. Spell check and grammar check of a document.

### Sample Case Studies

a. Create a newsletter for your school

b. Your school has organized Annual Function, Create a report that includes the highlights of the day.

c. Using Mail Merge replicate a birthday invitation letter with five different addresses.

[Students may be encouraged to work on a case study with entries in an Indian language.]



3) File Formats and conversions

- Save the document created in the above specified lab activity in 4(a) and 4(b) in pdf. Open the documents thus saved and observe the associated software.
- Import spreadsheet file into document file
- Convert scanned document into word/spreadsheet format.

**Class -X**

**Term II**

**70 marks**

- 4) Spreadsheet Preparation: Use simple Statistical Functions: SUM().AVERAGE() MAX(). MIN(). IF function with range of values, embedding Charts of various types: Line, Pie, Scatter Bar and Area in a Worksheet

**Sample Case Studies**

- a) Create a worksheet to organize your monthly expenses and calculate the balance for you. You can use fictitious data for this assignment!

Your worksheet should include the following data:

- a. A title such as “ My Monthly Expenses”
- b. Expenses: At least four items (e.g. rent, utilities, food , parking, payroll, phone bill, etc.) during a period of four months
- c. Income: At least two sources (e.g. Loan, Family Support, Student Work, Other, etc.) during a period of four months

Follow the instructions below and complete a personal work sheet for the expenses you spent in the past 4 months.

- (i) Set up the table. Plan how you would like the table to look like. The following is an example.

**My Monthly Income**

Expenses	September	October	November	December	Total	Average Check
Housing						
Phone						
Tuition						
Utilities						
Food						
Total Expenses						
<b>Income</b>						
Work study						
loan						
Total Income						

Balance

(ii) Input raw data

(iii) Compute the data

#### **Compute the total**

- Compute the total expense for each of the months
- Compute the total expense for each of the items across the four months
- Compute the total income for each of the months
- Compute the total income for each of the sources across the four months

#### **Compute the average**

- Compute the average for each of the items across the four months
- Compute the average income for the different sources
- Compute the average monthly income

#### **Compute the balance : difference between income and expense**

For each of the months between the total income and the total expense for the four months and the difference between the total income and the total expense during the four months.

Multiply the average by four to double-check the average operation. In other words see if the result of the multiplication matches the total.

#### **iv. Create graphs.**

- Create a column chart on monthly expenses in the worksheet, including a chart title, and axes titles. Your legend must have specific labels instead of “ series 1, Series 2... and Series 5”
- Create a second graphic (of your chosen style) on the monthly balance during the past four months.

#### **v. Header/footer**

Add a header to the worksheet that displays your name, email address, class & section, and a footer that displays the number of pages.

#### **vi. Print it**

- 5) Image Editing: Transform Tools: Align, Move, Crop, Rotate, Scale, Shear, Perspective, Flip, The Cage Tool, Color Tools: Color Balance, Hue\*Saturation, Colorize, Brightness-Contrast, Threshold.

#### **Sample Case Studies**

- 1) Create a collage from the pics of any event held in school
- 2) Create a logo of school magazine.

## 6) Network Security

- Practice in online transaction eg. Online registration, net banking, e-purchasing etc.
- Demonstration of network security features and precautions regarding secured transaction.

## 7) E-Publishing

- Preparing e-book in PDF format
- Prepare a write up on difficulties faced in e-publishing and precautions you suggest.

### Project Work :

For IX - X to be submitted in class X Term II

The Project starts in class IX and continues in class - X

### Sample Project:

ABC Company is planning to establish a publishing House. They have asked you to explore the market and submit the report that should have

- Hardware requirement and estimated cost
- Software requirement and estimated cost
- Infrastructure requirement
- Manpower
- Electricity
- Other expenses
- Expected market
- Profits etc.

### The report should have

- A letter head having company's logo and name
- Advertisement in pdf format
- Brochure having details of Publishing House

Use mail merge feature to send the report to various banks for sanctioning of loans.

	Practical File	Hands on Experience, Project Report & viva	Total
Term1	20	50	70
Term 2	20	50	70

**Note :** Computing is easy in Hindi and Other India Languages also. Example case studies are given in Hindi students may prepare similar case-studies in respective regional languages.

- **Class IX Term II**

अपनी कक्षा के छात्र/छात्राओं की सूची तैयार करो जिसमें उनका अनुक्रमांक, नाम, पिता का नाम, माता का नाम, पता, फोन न. और जन्म दिन का उल्लेख हो।

- **Class - IX**

पोस्टर बनाओ जिसमें "बेटी बचाओ बेटी पढ़ाओ" अभियान को प्रभावी ढंग से दिखाया गया हो। इसके साथ अपनी बात को वर्ड प्रोसेसर से एक पेज में लिखो और अपने मित्र को E-mail करो।

- **Class X - Term II (Sample Case Study) Annexure - I**

"जन धन योजना" के अंतर्गत गोपाल गाँव के निवासियों ने केनरा बैंक में खाते खोले हैं, इनमें बैलेंस शून्य हो सकता है, या 5 डिजिट में धनराशि हो सकती है, सूची तैयार करो जिसमें 50 निवासियों को वोटर कार्ड संख्या, निवासी का नाम, लिंग आयु, खाता संख्या, जमा धनराशि हो।

**Filiter command** से इस सूची से उन निवासियों की सूची तैयार करो, जिनकी जमा धनराशि शून्य है।

**(E) FOUNDATION OF INFORMATION TECHNOLOGY(FIT)  
(CODE No. 165)**

**Learning Objectives:**

- Understanding organization of a computer system and networking.
- Ability to work on office tools such as word processor, spreadsheet and presentation.
- Ability to apply knowledge and practice on office tools to develop IT applications
- Ability to use Indian languages in developing an IT application.
- Appreciation/awareness of societal impacts of information technology in business. Public services, education, health etc.
- Awareness of basic information security issues.
- Ability to design HTML webpage.
- Basic understanding of database design.

**Job Opportunities:**

- Upon completion of this optional course on FIT at secondary level, one will be able to assist in IT-enabled office work.

**WEIGHTAGE DISTRIBUTION**

**CLASS IX & X**

TERM I (50%)			TERM II (50%)		
FA1	FA2	SA1	FA3	FA4	SA2
10%	10%	30%	10%	10%	30%

**COURSE STRUCTURE**

**CLASS IX : Term I**

Marks: 90 (70 Theory , 20 Practical)

Class	Term	Duration	Marks
IX	I	3 Hours	90

S. No.	Description	Periods	Marks
1	Basics of Information Technology	08	30
2	Information Processing	08	30
3	IT Applications	06	10
Total		22	70

Note: Assessment of Practical Skills through MCQ will carry 18 marks, i.e., 20% weightage of the Summative Assessment.

## TERM - I (THEORY)

### Unit I: Basics of Information Technology

**Convergence of Technologies:** Computer, Communication and Content Technologies.

**Computer System:** Characteristics of a computer, components of a computer system - CPU (CU & ALU), Memory, Storage Devices and I/O Devices

**Memory:** Primary (RAM & ROM) and Secondary Memory.

**Units of Memory:** Byte, Kilobyte, Megabyte, Gigabyte, Terabyte, I/O Devices - Keyboard, Mouse, Printer, Joystick, Scanner, Microphone, OCR, MICR, Light Pen, Barcode Reader, Digital Camera, Web Camera, Speaker, Plotter

**Storage Devices:** Hard Disk, CD ROM, DVD, Pen/Flash Drive, Memory Stick

**Types of Software:** System Software (Operating System), Application Software (General purpose application software - Word Processing, Spreadsheet, Presentation, Database Management; Specific purpose application software - Accounting Management, Reservation System, HR Management, Attendance System, Payroll System, Inventory Control System, Billing System) and Utility Software (Disk/Folder/Files Management, Virus Scanner/Cleaner, Encryption/Decryption Tools)

### Unit II: Information Processing Tools

Operating System - Basic concepts of Operating System, Operating System: Need for operating system, Functions of Operating System (Processor Management, Memory Management, File Management and Device Management), Types of operating system - Interactive (GUI based), Real Time and Distributed; Commonly used operating systems: UNIX, LINUX, Windows, Solaris, BOSS (Bharat Operating System Solutions); Mobile OS - Android, Symbian.

Introduction to Windows: Basic components of a GUI Window: Desktop, Frame, Title Bar, Menu Bar, Status Bar, Scroll Bars (Horizontal and Vertical), Basic operations of left and right buttons of mouse, Creating Shortcut, Basic Tools: Text Editor, Painting Tool, Calculator, using Mouse and moving icons on the screen, Task Bar, Different types of menu and menu selection, running an application, setting system date and time; viewing files, concept of folders and directories, creating/moving/ renaming/ deleting files and folders, opening and closing Windows, Minimise, Restore and Maximise forms of windows.

### Office Tools

Word Processing Tool: Introduction to a Word Processor. Creating and Saving a document. Editing and Formatting a Document: Text Style (B, I, U), Font Type, Size, changing color, alignment of text. Formatting paragraphs with line and/or paragraph spacing. Adding headers and footers, numbering pages, using grammar and spell check utilities, using subscript and superscript, inserting symbols, Print Preview, Printing a document. Inserting Pictures, Page Setting, Bullets and Numbering, Borders and Shading, Format Painter/Paintbrush, Find and Replace, Inserting Tables: inserting, deleting rows and columns, merging cells, splitting cells.

### **Unit III: IT Applications**

Students are suggested to work on the following areas using Word Processing.

Domains:

Multi Lingual Documentation:

- Letter Writing - content, context, addressee
- Report Writing - content, presentation, context
- Greeting Card - design, context, recipient
- Poster Making - design, context, target group

### **TERM - I (PRACTICAL)**

#### **(A) HANDS ON EXPERIENCE**

##### **1. Working on Operating System:**

To test some of the following basic system operations on file / folder(s):

- Create
- Rename
- Copy / Cut / Paste
- Delete
- Commands related to Text Editor / Drawing Tool

##### **2. Word Processing\***

A document is required to be created for testing the following areas  
Editing and formatting text and paragraph

- Page and paragraph setup
- Inserting symbols and pictures

\*Printouts of the document(s) should be attached with the answer sheet.

#### **(B) IT APPLICATION REPORT FILE**

Students are supposed to make an IT Application Report File containing real life assignments using Word Processing Tool on 4 topics (Report Making, Poster Making, Invitation Cards, Letter/Application writing).

#### **(C) VIVA VOCE**

The questions can be asked from any portion of the syllabus covered during Term I of Class IX.

## TERM - II

Marks: 90 (70 Theory , 20 Practical)

Class	Term	Duration	Marks
IX	I	3 Hours	90

S. No.	Description	Periods	Marks
1	Basics of Information Technology	06	15
2	Information Processing Tools	10	35
3	IT Applications	06	10
4	Societal impacts of IT	05	10
		27	70

Note: Assessment of Practical Skills through MCQ will carry 18 marks, i.e., 20% weightage of the Summative Assessment.

## TERM-II (THEORY)

### Unit I: Basics of Information Technology

#### Communication Technology

Computer Networking - LAN, MAN, WAN, Internet, Interspace

Wired Networking Technology; examples Co-axial Cable, Ethernet Cable, Optical Fiber

Wireless Networking Technology, examples, Bluetooth, Infrared and WiFi

#### Content Technology

Data, Information and Multimedia (Picture/Image, Audio, Video, Animation)

### Unit II: Information Processing Tools

#### Office Tools

**Presentation Tool:** Introduction to Presentation Graphics, Understanding the concept of Slide Shows, Basic elements of a slide, Different types of Slide Layouts, Creating and saving a Presentation, Different views of a slide: Normal view, Slide Sorter view and Slide Show, Editing and Formatting a slide: Adding Titles, Subtitles, Text, Background, Watermark; Headers and Footers, Numbering Slides; Printing Slides Handouts, Inserting pictures from files, Animating pictures and Text with Sound Effects, Timing Text box, Pictures and Slides, Rehearse Timings, Ungrouping and Grouping Objects (like text, picture).

**Spreadsheet Tool:** Introduction to Spreadsheets, Concept of Worksheets and Workbooks, Creating and Saving a worksheet. Working with a spreadsheet: entering numbers, text, date/time, series using Auto Fill, Editing and formatting a worksheet



including changing colour, size, font, alignment of text, Inserting or Deleting cells, rows and columns, Formula-Entering a formula in a cell, using operators(+,-,\*,/) in formulae, Relative referencing, Absolute referencing and mixed referencing, Printing a worksheet. Use simple Statistical functions: SUM(), AVERAGE(), MAX(), MIN(), IF() (without compound statements); Inserting tables in worksheet, Embedding Charts of various types: Line, Pie, Scatter, Bar and Area in a worksheet.

**Word Processing Tool:** Using auto-format, mail merge, track changes, review comments, insertion of drawing tools, shapes and mathematical symbols.

### **Unit III: IT Applications**

Students are suggested to work on the following areas using Word Processing, Presentation and Spreadsheet Tools.

#### **Domains:**

#### **Documentation:**

- Mail-Merge Formal/Informal letter

#### **Presentation:**

- School Presentation
- Environment (Save Energy) and Pollution (Global Warming)
- Product Advertisement
- Science and Social Science topic from the course
- Trends in Wireless Computing

#### **Analysis Reporting:**

- School/Class Result with student-wise and subject-wise marks
- Cricket Score Record
- Weather Forecasting Report

### **Unit IV: Societal Impacts of IT**

Benefits of ICT in Education, Healthcare, Governance, Business, Design and Manufacturing Plagiarism, Privacy, Security and Integrity of Information; Intellectual Property Rights, Careers in IT.

### **TERM-II (PRACTICAL)**

#### **(A) HANDS ON EXPERIENCE**

##### **1. Presentation**

A presentation is required to be created with 4 slides for testing the following areas:

- Editing and formatting slides
- Inserting pictures and sounds

- Animating pictures and text with sound effects

## 2. Spreadsheet\*

A spreadsheet is required to be created for testing the following areas:

- Formatting cells and data
- Functions & formulae (Relative, absolute and Mixed reference)
- Charts

\*Printouts of the document(s) should be attached with the answer sheet.

### (B) IT APPLICATION REPORT FILE

Students are supposed to make an IT Application Report File containing real life assignments/ presentations using Presentation and Spreadsheet Tools.

- 4 presentations
- 4 spreadsheets with charts
- 1 word processing document along with mail merge feature.

### (C) VIVA VOCE

The questions can be asked from any portion of the syllabus covered during Term II.

## COURSE STRUCTURE TERM I

### CLASS - X

Marks: 90 (70 Theory , 20 Practical)

Class	Term	Duration	Marks
X	I	3 Hours	90

S.No.	Description	Periods	Marks
1	Basics of Information Technology	06	20
2	Information Processing Tools	12	40
3	IT Applications	06	10
	Total	24	70

**Note:** Assessment of Practical Skills through MCQ will carry 18 marks, i.e., 20% weightage of the Summative Assessment.

### Unit I: Basics of Information Technology

Internet: World Wide Web, Web servers, Web sites, Web Pages, Web Browsers, Blogs, News groups, HTML, Web address, E-mail address, URL, HTTP;

Services available on Internet: Information Retrieval, Locating sites using search

engines and finding people on the net, FTP, Downloading and Uploading files from remote site;

Web Services: Chat, email, Video Conferencing, e-Learning, e-Banking, e-Shopping, e-Reservation, e- Governance, e-Groups, Social Networking.

## **Unit II: Information Processing Tools**

### **Office Tools**

**Database Management Tool:** Basic Concepts and need for a database, Creating a database, Data

**Types:** Text, Number, Data, Time, Setting the Primary Key, Entering data into a database, Inserting and deleting Fields, Inserting and deleting Records, Field Size, Default Value, Creating Query using Design view.

### **Information Representation Methods**

#### **Hyper Text Markup Language**

Introduction to Web Page Designing using HTML, Creating and saving an HTML document, accessing a web page using a web browser (Internet Explorer, Mozilla Firefox, Opera, Apple Safari, Net scape Navigator, Google Chrome);

**Elements in HTML:** Container and Empty elements, Designing web pages using the following elements:

HTML, HEAD, TITLE, BODY (Attributes: BACKGROUND, BGCOLOR, TEXT, LINK, ALINK, VLINK, LEFT MARGIN, TOP MARGIN), FONT(Attributes: COLOR, SIZE, FACE), BASEFONT(Attributes: COLOR, SIZE, FACE), CENTER, BR (Break), HR(Horizontal Rule, Attributes: SIZE, WIDTH, ALIGN, NO SHADE, COLOR) inserting comments, H1..H6 (Heading), P (Paragraph), B (Bold), I (Italics), U (Underline), UL & OL (Unordered List & Ordered List Attributes: TYPE, START), LI (List Item)

## **Unit III: IT Applications**

Students are suggested to work on the following areas using Database Management Tool on topics implementing the tools covered in the course.

### **Domains:**

#### **Business Computing**

- Personal Data Record File
- School/Class Result Record
- Employee Payroll
- Stock Inventory
- Vehicle Parking Record File

## Webpage Design

- My Home Page
- My School
- My Family

### TERM - I (PRACTICAL)

#### (A) HANDS ON EXPERIENCE

##### 1 Business Computing Problem:\*

A business-computing problem is required to be solved using Database Management Tool (Open Office) for testing the following aspects of database.

Creating and entering data into a database

- Setting the primary key
- Inserting meaningful data and organising
- Creating Query with the same design view of the table.

##### 2. Web Page Designing \*

A Web Page designing for testing in the following:

- Adding a title to webpage
- Formatting Text
- Adding Ordered/Unordered Lists
- Writing Text in Paragraphs

The students are supposed to know the tools and style for designing domain specific web pages from real life applications and the topics mentioned in the syllabus.

\* Printouts of the Table Content / Web Pages should be attached with the answer sheet.

#### (B) IT Application Report File

Students are supposed to make an IT Application Report File containing real life assignments using a Database Management Tool and HTML on topics from the domain:

**Must have print outs of the following:**

- 4 Database Solutions from Business Computing
- 4 HTML source code along with browser view

#### (C) VIVA VOCE

Oral questions can be asked from any portion of the syllabus covered during Term I.

## TERM-II

Marks: 90 (70 Theory , 20 Practical)

Class	Term	Duration	Marks
X	I	3 Hours	90

S. No.	Description	Periods	Marks
1	Basics of Information Technology	06	15
2	Information Processing Tools	10	30
3	IT Applications	06	10
4	Societal impacts of IT	05	15
Total		27	70

**Note:** Assessment of Practical Skills through MCQ will carry 18 marks, i.e., 20% weightage of the Summative Assessment.

### TERM-II (THEORY)

#### Unit II: Information Processing Tools

##### Information Representation Methods

##### Hyper Text Markup Language

Insertion of images using the element IMG (Attributes: SRC, WIDTH, HEIGHT, ALT, ALIGN), Super Script SUP, Subscript SUB, Creating Table using the element TABLE (BACKGROUND, BGCOLOR, WIDTH, CELSPACING, CELLPADDING, BORDER), TR, TH, TD, ROWSPAN, COLSPAN, Internal and External Linking between Web Pages: Significance of linking, A - Anchor Element (Attributes: NAME, HREF, TITLE, MAILTO)

##### XML

Introduction to XML, Difference between XML and HTML with respect to the following: Data separation, data sharing, document structure, tags, nesting of elements, attributes, values. XML Elements - Defining own tags in XML, root elements, child elements and their attributes; Comments in XML, White space and new line in XML, well formed XML documents, validating XML documents, XML Parser, Viewing XML documents in a web browser.

#### Unit III: IT Applications

Students are suggested to work on the following areas using HTML on topics implementing the elements covered in the course.

##### Domains:

##### Website Designing

- Personal Blog with Name, Photo, Areas of Interest, School, State, Country
- School Website - Infrastructure, Facilities, Uniform, Motto, School Pictures, Extra-Curricular Activities, Subject and Language Options
- Travel and Tourism

- Statistics on Indian - State wise Area, Population, Literacy (Enrolment in Primary, Middle, Secondary, Senior Secondary), Gender Ratio
- Environment (Save Energy) and Pollution (Global Warming)

#### **Unit IV: Societal Impacts of IT**

Virus, Worms, Trojans and Anti-Virus Software, Spyware, Malware, Spams, Data Backup and recovery tools and methods, Online Backups, Hacker and Cracker with regard to Computer Data and Applications, Social Networking Information security provisions in e-commerce, Benefits of ICT in Education, Healthcare, Governance, Virtual, School, emergence of Knowledge economy, Impact of ICT on Society: Knowledge based society, Infomania, Digital Unity and Digital Divide.

### **TERM - II (PRACTICAL)**

#### **(A) HANDS ON EXPERIENCE**

##### **1. Web Page Designing\***

Web Page designing for testing the following:

- Adding a title to webpage
- Formatting Text
- Inserting Image
- Adding Ordered/Unordered Lists
- Writing Text in Paragraphs
- Adding content in Tabular Form
- Adding Internal / External links.

##### **Adding Internal/External links.**

The students are supposed to know the tools and style for designing domain specific web pages from real life applications and the topics mentioned in the syllabus.

##### **2. XML Assignment\***

Students to be asked to create an XML document on the lines of XML concepts covered in theory syllabus.

*\*Printouts of the document(s) should be attached with the answer sheet.*

#### **(B) IT Application Report File**

Students are supposed to make a IT Application Report File containing real life assignments on HTML and XML on Domains mentioned in UNIT III

- 4 HTML source code along with browser view
- 2 XML Documents Source Code and View.

#### **(C) VIVA VOCE**

The questions can be asked from any portion of the syllabus covered during Term II.

**(F) INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)**  
**(CODE NO. 166)**

**General instructions**

1. The unit specified for each term shall be accessed through Formative and Summative Assessment.
2. Each of the summative assessments, SA1 in the first term and SA2 in the second term will carry 30% weightage.
3. Formative Assessment is based on hands-on skills and projects. In each term, there will be two Formative Assessments (FA1, FA2 in first term and FA3, FA4 in second term). Each Formative Assessment carries 10% weightage that sum up to 40 % weightage (FA1 + FA2 +FA3 +FA4) in the annual examination.

**WEIGHTAGE DISTRIBUTION**

**Time: 3 Hrs.**

**Marks: 90**

TERM I (50%)			TERM II (50%)		
FA1	FA2	SA1	FA3	FA4	SA2
10%	10%	30%	10%	10%	30%

**COURSE STRUCTURE - Class IX Term-I**

**Duration: 3 Hours**

**Marks: 90 (70 Theory + 20 Practical)**

Unit	Name of Unit	Periods	Maximum Marks
I	Basics of Internet	5	20
II	Web Service	5	20
III	Introduction to GIMP	12	30
<b>Total</b>		<b>22</b>	<b>70</b>

**Note:** Assessment of Practical Skills through MCQ will carry 18 marks i.e. 20% weightage of the SA

**Term I (Theory)**

**Unit I: Basics of Internet**

World Wide Web - History of World Wide Web, difference between Internet and www, search engines.

**Web Servers:** What is a server; Server software, Services provided by servers and their types.

**Website:** Definition and its difference from portal, Components of website, Construction

of website, how to build a website? elements of website, software used to create website.

**Web pages:** Definition of webpage, what does it contain? static and dynamic areas, what makes a webpage work?, difference between web page and website.

**Web Browser:** Tool bar, SSL, names of various web browsers.

**Blogs-** Definition of blog and bloggers, advantages and disadvantages of blogging.

**URL:** Definition, elements, absolute and relative URL

**Protocols:** Definition, TCP/IP, HTTP, FTP which one to use when and why, applications and examples.

## Unit II: Web Services

### Concept of web services

**Email:** Definition, protocols used in email services, mail account and address, sending and receiving an email, difference between cc and bcc, spam and junk, Email etiquettes-proper structure and layout, case sensitivity, disclaimer to email, care with abbreviations and emotions, gender sensitivity,

**Chat:** Definition, chat room, commonly used types of chat.

**Video conferencing :** Definition, areas of application, advantages and disadvantages of video conferencing.

**e-learning:** Definition, benefits, application areas, e-learning software.

**e-shopping:** Definition, advantages and disadvantages, sites available, threats and security concerns.

**e-reservation:** Definition, benefits, application areas, reservation process, live and non-live reservation

**e-group:** Definition, features, benefits.

**Social Networking:** Definition, names of various social networking web sites, merits and demerits, service providers, features available, ethics.

## Unit III: Introduction to GIMP

**Image editing:** Basics of image editing and their features. Various image editing software including freeware and paid software.

**GIMP-** Introduction, features and uses of GIMP. Downloading GIMP, GIMP compatible platforms. Creation of new file using shortcut or mouse. Default extension of these files and opening of existing file.

Saving a file with keyboard or mouse, .xcf and various file formats supported by GIMP. Basics of GIMP window, Understanding main components of GIMP window, Toolbox.



Toolbox- Explain selection tools, text tools, eraser tools, bucket fill tools, foreground and background.

Handling of menus in GIMP with its editing features, Image handling by using various selections and paint tools, resizing (scaling) and cropping, editing images for web, Layers.

## Term II

Duration: 3 Hours

Marks: 90 (70 Theory + 20 Practical)

Unit	Name of Unit	Periods	Maximum Marks
IV	Introduction to HTML	10	30
V	Introduction to HTML II	08	25
VI	Security Threats and Security Measures	05	15
<b>Total</b>		<b>23</b>	<b>70</b>

**Note:** Assessment of Practical Skills through MCQ will carry 18 marks i.e. 20% weightage of the summative Assessment.

### Unit IV: Introduction to HTML

Introduction and origin of HTML, History of HTML, Advantages of using HTML, Tools to be used, Tags and attributes, Document structure

Tags and attributes- tags - what are they, tag format, single and multiple tags, empty elements and container elements, Formatting elements.

Structure of HTML document- HTML, HEAD, TITLE, BODY, Attributes (BACKGROUND, BGCOLOR, TEXT, LINK, ALINK, VLINK)

Formatting elements: Font (attributes - colour - <font color> ,</font>), size - <font size> , </font>), face), Centre, Break, Horizontal rule, (attributes- size, width, align, no shade, colour) Headings (H1 to H6), Paragraph ,<p></p> , P ALIGN , Bold<B> , </B>, Italics<I> , </I>, underline<U> , </U>, <br>, <hr> tag.

### Unit V: Introduction to HTML II

LISTS- requirement of list in HTML, definition and introduction of LIST<li> , </li>, different types of lists, unordered or bulleted list <ul> ...</ul>, ordered numbered list <ol>...</ol>, definition or glossary list<dl> ...</dl>, <dt>...</dt>(attribute- type, start)

Inserting Image, Audio and Video, Image attributes - align, border, alternate label, width and height)

Audio (attributes - autoplay and controls)

Video (attributes - height, width, auto buffer, controls)

## Unit VI: Security Threats and Security Measures

**Virus-** definition, types, virus spread, protection, current threats

**Worms-** definition, types, spread, protection, current threats

**Trojans-** definition, Trojan spread, protection

**Spyware-** definition, symptoms, prevention and protection

**Malware-** definition, types, prevention

**Spams-** definition, detection and prevention

**Hackers and Crackers-** definition, tools available, types of hacking, difference between hackers and crackers.

**Antivirus tools-** free and paid tools, latest tools, their style of working, importance of regular update

**Data Backup and Recovery tools-** Need for backup, technologies and tools available, importance of backup and recovery plan, types of backup.

## PRACTICAL WORK

### Class IX

### Term I

- 1
  - a) Find out and make a list of all the e-commerce websites, Academic websites and social networking sites.
  - b) Find out all the latest search engines with the features and make a presentation.
  - c) Students can be asked to make a list of IP addresses of few of their favorite sites using google search engine. Ask them to use those IP addresses to open the sites.
  - e) Ask students to create a blog for their class and update the blog on daily basis.
- 2
  - a) Make a list of all the sites through which video conferencing is possible without paying any money.
  - b) Create an e-group of your class and share your view on the current societal issues with your friends.
  - c) Find out and make a list of various e-shopping websites and make a presentation on the information gathered.
  - d) Log into your email account and perform the following operations:-
    - compose a mail using all the options of email such as bcc and cc.
    - Add email address from your address book.
    - Transfer mail from Inbox to spam and vice versa. Create different folders and arrange mails in different folders.

e) Create a face book and twitter account for your class and invite all teachers and students of your class to this account. Use this account for academic purpose.

### 3) Case Study

a) Create a blog with the site www.blogger.com or wordpress.com and keep the following points into consideration:

- Enter the title of the blog as "School Activities at a glance"
- Select a suitable template for your blog.
- The URL of your blog should be your complete name.
- Publish the post on the monthly basis with the pictures of your school activities of a particular month and then view this post.
- Sign out from the blog website.

b) Design a digital poster of any e-shopping website.

c) Take your own picture, scan it and change the background colour and clothes colour using paint tools and layouts.

d) Collect three or four images live water image, building image, ship image and a bird image. Make one image showing reflection of the building on the shore and bird flying in a sky in water with the ship.

4 a) Import ant image file of your choice. Change the foreground and the background color, use a text tool to give a heading to your file. Add a layer and place another picture on it. Select the text tool and type your name in blue color. Select a portion of the picture and then change the direction. Save the file.

b) Make a collage on "heritage of India"

c) Create an advertisement for a magazine on any product of your choice.

d) Try to design the logos of some famous brands.

**Project : Developing & Project using the concepts studied so far.**

**(15 Periods)**

## Term II

### Case Studies

- Create the web page for the possible security solutions available for promoting the business of company involved in security solution:

<b>Ultimate Security Solutions</b>
<ul style="list-style-type: none"><li>• Digital Video Recording</li><li>• CCTV Surveillance Cameras</li><li>• Video Door Phones</li><li>• Force Intruder Alarms</li><li>• Electronic Door Locks</li></ul>

Design the webpage for a transport company. The company allows on-line reservation of taxis, buses, train and airplane ticket

<p style="text-align: center;"><b>Comfort Travel</b></p> <p style="text-align: center;"><b>Contents</b></p> <ul style="list-style-type: none"><li>• Destinations covered</li><li>• Services available</li><li>• Mode of Transport</li><li>• Reservation</li></ul>
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Create the following web pages with the specification:-

1. Title of the web page should be "Town Restaurants"
2. Background color of the page should be "blue"
3. Font face in the page should be "Comic Sans MS"
4. Use OL and UL tags to display the list.

<p style="text-align: center;"><b>TOWN RESTAURANT</b></p> <ol style="list-style-type: none"><li>1. Pizzas<ol style="list-style-type: none"><li>a) Cheese Capsicum and Onion</li><li>b) Cheese Tomato</li><li>c) Chicken Mushroom</li></ol></li><li>2. Burgers</li><li>3. Hot Dogs</li><li>4. Chowmein<ol style="list-style-type: none"><li>a) Vegetarian</li><li>b) Non- Vegetarian</li></ol></li></ol>
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Make a web site depicting all latest viruses and anti-virus available in the market.

- Create a web page for the company dealing in the data Backup and Recovery tools.  
**Extended Project** using the concepts studied so far.

## CLASS X COURSE STRUCTURE

Term I

Duration : 3 Hours

Marks: 90 (70 Theory + 20 Practical)

Unit	Name of Unit	Periods	Maximum Marks
I	Computer components and Inter-connection	6	20
II	Advance GIMP	12	25
III	Advanced HTML	10	25
<b>Total</b>		<b>28</b>	<b>70</b>

**Note :** Assessment of Practical skills through MCQ will carry 18 marks i.e. 20% weightage of the summative Assessment.

### Unit I: Computer Components and Interconnection

Computer System and its definition, Hardware, Basic components of a Computer System, Input Unit, Central processing Unit/CPU, Output unit and functions, Memory, types of memory, Primary Memory, RAM (Random Access Memory), ROM(Read Only Memory), SECONDARY MEMORY, Binary digit, concept of bit and bytes, Types of computers (Analog, Digital, Hybrid), characteristics of computers, types of software (System Software, Application Software, Utility Softwares, classification of Programming Languages Ports and Cables)

### Unit II: Advance GIMP

Toolbox-Move tool, Alignment tool, Scale tool, Shear tool, Perspective tool, Flip tool, Blend tool, Blur/Sharpen tool, Smudge tool, Dodge / Burn tool Painting in GIMP-Pencil and paintbrush tool

Operations on Layers (Adding new layers, Renaming a Layer, Deleting a Layer, Merging a Layer, Scaling a layer, Duplicating a Layer)

Masking-Introduction and example, editing a mask

### Unit III: Advanced HTML

Representing data in Tabular forms, Concept of Table

Attributes <table> ..</table> ,<TR>..</TR>, <TD>..</TD>TH, Colspan, ROWSPAN)

Table Border<TABLE BORDER>, Align, width, Border Color, BGcolor, background, <CAPTION> tag

Working with frames, frame attributes (<frameset..> ), Attributes of <frameset>( Rows, Cols, Border, Frameborder, Framespacing.

Frameset element and its attribute (Src, Scrolling, Noresize), target attribute in anchor tag.

Term II

Duration : 3 Hours

Marks: 90 (70 Theory + 20 Practical)

Unit	Name of Unit	Periods	Maximum Marks
IV	Working with HTML Forms	06	20
V	DHTML & CSS	12	30
VI	Network Security	05	20
<b>Total</b>		<b>23</b>	<b>70</b>

**Note :** Assessment of Practical skills through MCQ will carry 18 marks i.e. 20% weightage of the Summative Assessment.

#### **Unit IV: Working with HTML Forms**

Introduction and explanation of forms, Tags and attributes used in form (FORM, <form>..</form> INPUT tag and its attributes (Name,Size , Maxlength , Type)

Fields displayed by type attribute, (Text Box Field, Radio Buttons, Check boxes, command Button, Drop down Box and TEXTAREA, SELECT)

#### **Unit V: DHTML & CSS**

Introduction to DHTML, Features and used of DHTML, Components of DHTML, Cascading style sheet, Advantages and Limitations of CSS,

Methods of applying CSS to an HTML document, In-line (the attribute style) and Internal (the tag style), External (link to style sheet), creating and saving cascading style sheets

Introduction and familiarization of Font, Font-Family, Style, Size, Variant, Weight Text and Background properties; Colour properties - Text Indent, Align, Decorating, Spacing Transform Text alignment, decoration and transformation, Foreground and Background colour, Image and Repeat

Use of margin and margin properties, Concept of padding and Border and Padding and Border Properties

Absolute and Relative Positioning

#### **Unit VI: Network Security**

Concepts: Cyber Law, Cyber Crime, Fire wall, Cookies, Hackers and Crackers

Open Source Software, Free ware, Shareware, Licensing scheme, Copy writing, GPL(General Public Licence), Licensed software, Copyright software, refrain from copyright violation and piracy etc.

## **PRACTICAL WORK Class X (Term I)**

1. Find out and make a list of the types of memory available in the market and their storing capacity. Also find out, about the various utility and application software(s) used, and share this information through social networking sites. Create a document/ spreadsheet/form through Office Web Apps e.g google docs/sky drive and share it you're your friends.
2. Create a collage from the pictures of any recent event held in school using following GIMP (GNU Image Editing Software) tools:  
Transform Tools: Align, Move, Crop, Rotate, Scale, Shear, Perspective, Flip, Blend, Blur, Sharpen, Smudge and Burn tool  
Operations on Layers (Adding new layers, Renaming a Layer, Deleting a Layer, Merging a Layer, Scaling a layer, Duplicating a Layer), Masking and editing a mask as required.
3. Case Study:
  - a) Design a digital poster for any state of your choice in India depicting their tourist spots and thus promoting tourism.
  - b) Collect and Import few pictures or images of important monuments (tourist spots). Add layers and place a picture in each layer. Merge layers and edit layers and use mask to to selectively colour the images.
  - c) Create a website for a Computer Hardware firm. The firm deals in various output units and various types of memory. Collect information about various brands of printers, scanners, memory etc. available in market. Show the various product details in tabular form on each web page.

### **ABC Solutions**

Memory; Printers; Scanners

**Extended Project : Developing Project integrating concepts covered so far. (10 Periods)**

## **Class -X Practical (Term II)**

### **Case Study:**

1. Create following on line forms:
  - a) Adhar Card
  - b) Railway Reservation form
- Using Front Page design a web site for your school.
- Collect information about different licensing schemes in case of software(s). Using HTML design a web site providing information about Open source, free ware, licensed software(s).
- Collect information of Cyber Laws and using Front page create a web site. Extended

**Extended Project : Developing Project integrating concepts covered so far.**

**(10 Periods)**