

Syllabus, 2015

H.S. (Vocational)

XI-XII

Home Science



**The West Bengal State Council of Technical and
Vocational Education and Skill Development
Plot No. B/7, Action Area III, New Town, Rajarhat,
Kolkata - 700160**

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Nomenclature of different vocational groups under Home Science Discipline

SL No	Group Name	Gr. Code	Vocational subject combinations available in Class XII	Remarks
1	Community Healthcare	HSCH	1. Community Nutrition (CONU) 2. Hospital Management (HPMG) 3. Public Health & First Aid (PHFA)	<i>Any paper of this combination can be chosen as VP1 or VP2 as per discretion of the Vocational Training Centre(VTC).</i>
2	Food and Nutrition	HSFN	1. Food Processing & Preservation (FPAP) 2. Mushroom Culture (MRCL) 3. Community Nutrition (CONU)	<i>Papers mentioned in Sl. No. 1 of this combination must be chosen as VP1. VP2 can be selected from Sl. No. 2 & Sl. No 3 of this combination as per discretion of the Vocational training Centre (VTC).</i>
3	Community Healthcare	HSCH	1. Community Nutrition (CONU) 2. Hospital Management (HPMG) 3. Public Health & First Aid (PHFA)	<i>Paper mentioned in Sl. No. 1 & Sl. No. 2 of this combination must be chosen as VP1, VP2.</i>
4	Home management	HSHM	1. Interior Decoration (INDC) 2. Garment Design (GMDG) 3. Public Health & First Aid (PHFA)	<i>Paper mentioned in Sl. No. 1 & Sl. No. 2 of this combination must be chosen as VP1, VP2.</i>

VP1 and VP2 are two compulsory papers, Optional paper may be VP3

For all students of a VTC, choice of VP1 and VP2 must be same. Choice of 7th subject of all students for a VTC must be either VP3 or AE3.

[VP = Vocational paper, AE = Academic Elective]

CURRICULUM STRUCTURE FOR H.S. (VOCATIONAL) COURSES w.e.f. 2015-16 session**Discipline : Home Science [HS]****I. Scheme of Studies**

No. of periods per week*	Theory +Practical	40/42/43	No. of effective weeks per year	40
			No. of weeks for class	36
			No. of weeks for exam	4
Duration of period **	Theory	40 min		
	Practical	40 min		

* 8 periods per day (Monday to Friday) x 5 =40 periods + 4 periods in each Saturday.

** Effective class duration: Monday to Friday – 5 hours20min. per day, and Saturday - 2 hours 40 min.

II. Courses, Distribution of Marks and Classes**CLASS-XI**

Group	Paper no.	Code	Subject	Theory	Distribution of Mark			Distribution of Classes/Week				Total yearly classes
					Practical	Project	Total	Theory	Practical	Project/Tutorial	Total	
Language	1	BEN1/ HIN1/ NEP1/ URD1	First Language: Bengali/Hindi/Nepali/ Urdu	80		20	100	2	1	3	108	
	2	ENG1	Second Language: English	80		20	100	2	1	3	108	
Basic Vocational	3.	BANU	Basic Nutrition	50	50		100	3	4	7	252	
	4.	ECCE	Early Childhood Care & Education	50	50		100	3	4	7	252	
Academic elective	5	DTC1	Dietetics I	70	30		100	4	2	6	216	
	6	BSBC	Basic Science (Biology+ Chemistry)	70 [35 + 35]	30 [15 + 15]		100 [50 + 50]	4 [2 + 2]	2@ [1 + 1]	6 [3 + 3]	216 [108 + 108]	
Common	7	EDCA	Entrepreneurship Development & Computer Application	50 [25 + 25]	25	25	100 [50 + 50]	4 [2 + 2]	4 [1 + 3]	8 [3 + 5]	288 108 + 180]	
									22	18	40	

@ Biology and Chemistry practical may be taken alternate week keeping continuous 2 periods for each lab.

Note:

A Candidate shall have to appear all subjects in the Annual Examination of Class XI and have to pass at least 5 subjects to pass class XI as per below distribution:

- Both subjects of Language group (Paper1 & Paper2)
- Both Subjects of Vocational group (Paper3 & Paper4)
- Any one subject either from Academic Elective group or from Common group (i.e. any one paper from Paper5, Paper6 & Paper7). In case candidate pass in more than one subjects out of paper 5, paper 6 and paper 7, then subject with highest marks will be considered for calculation of Grade.

CLASS-XII

Group	Paper no.	Code	Subject	Theory	Distribution of Mark			Distribution of Classes/Week				Total yearly classes
					Practical	Project	Total	Theory	Practical Project/Tutorial	Total		
Language	1	BEN2/ HIN2/ NEP2/ URD2	First Language: Bengali/Hindi/Nepali /Urdu	80	-	20	100	2	1	3	108	
	2	ENG2	Second Language: English	80	-	20	100	2	3(1+2*)	5	180	
Vocational	3.		Two vocational subjects as prescribed under vocational course [to be selected from table under Sl no. IV] i) Vocational Paper I [VP1]	50	40	10	100	3	4	7	252	
	4.		ii) Vocational Paper II [VP2]	50	40	10	100	3	4	7	252	
Compulsory Academic	5	BIOH	Biology [AE1]	70	30	-	100	4	2	6	216	
	6	DTC2	Dietetics II [AE2]	70	30	-	100	4	2	6	216	

Group	Paper no.	Code	Subject	Theory	Distribution of Mark			Distribution of Classes/Week			Total yearly classes
					Practical	Project	Total	Theory	Practical/Project/Tutorial	Total	
Optional Elective	7	HUDV	Human Development [AE3]	70	30	-	100	4	2	6	216
		or VP3	OR One vocational subject as prescribed under vocational course [to be selected from table under Sl no. IV][VP3]	50	40	10	100	3	4	7	252
Common	8.	ENST	Environmental Studies (**)	80	-	20	100	2	-	2	72
								24/23	18/20	42/43	

(*) 2 Period are kept to develop the communication skill in English.

(**) The theory subject “Environmental Studies” [ENST] is compulsory for all the candidates only to generate awareness among the students. Evaluation will be taken place at the end of the year, but the obtained marks will not be considered for calculation of final marks.

Note:

- Paper 7 is optional elective. A Candidate may or may not opt for it. Only if a Candidate opts for paper 7, marks scored will be displayed in final mark sheet.
- A Candidate shall have to appear at all subjects of Class XII and have to pass at least 5 subjects to pass class XII as per below distribution:

For student opting Paper 7	For student NOT opting Paper 7
- Both subjects of Language group Paper 1 & Paper2)	- Both subjects of Language group (Paper1 & Paper2)
- Both Subjects of Vocational group (Paper3 & Paper4)	- Both Subjects of Vocational group (Paper3 & Paper4)
- Any one paper from Paper5, Paper6 and Paper 7	- Any one paper from Paper5, Paper6.

- In case candidate pass in more than one subjects among Paper 5, 6, and 7 (if opted), paper with highest marks will be considered for calculation of Final grades. Final Grades will be calculated based on the marks attained only in Class XII.

III. Academic Elective Subject Package:**For Class XII**

Sl No.	Subject Name	Subject code	Subject type
1.	Biology	BIOH	Compulsory Academic Elective
2.	Dietetics II	DTC 2	Compulsory Academic Elective
3.	Human Development	HUDV	Optional Elective

IV. Different Vocational subject combinations available under Home Science [HS] discipline for Class XI and Class XII

Sl No	Group code	Vocational subject for Class XI	Vocational Subjects combinations available for Class XII	Remarks
1	HSCH	1. Basic Nutrition [BANU] 2. Early Childhood Care & Education [ECCE]	1. Community Nutrition (CONU) 2. Hospital Management (HPMG) 3. Public Health & First Aid (PHFA)	<i>Any paper of this combination can be chosen as VP1 or VP2 as per discretion of the Vocational Training Centre (VTC). For all students of a VTC choice of VP1 & VP2 must be same. Choice of 7th subject of all students for a VTC must be either VP3 or AE3.</i>
2	HSFN	1. Basic Nutrition [BANU] 2. Early Childhood Care & Education [ECCE]	1. Food processing & Preservation (FPAP) 2. Mushroom Culture (MRCL) 3. Community Nutrition (CONU)	<i>Papers mentioned in Sl. No. 1 of this combination must be chosen as VP1. VP2 can be selected from Sl. 2 & Sl. No 3 of this combination as per discretion of the Vocational Training Centre (VTC). For all students of a VTC, choice of VP2 must be same. Choice of 7th subject of all students for a VTC must be either VP3 or AE3.</i>
3	HSCH	1. Basic Nutrition [BANU] 2. Early Childhood Care & Education [ECCE]	1. Community Nutrition (CONU) 2. Hospital Management (HPMG) 3. Public Health & First Aid (PHFA)	<i>Papers mentioned in Sl. No. 1 & Sl. No. 2 of this combination must be chosen as VP1, VP2. Choice of 7th subject of all students for a VTC must be either VP3 or AE3.</i>
4	HSHN	1. Basic Nutrition [BANU] 2. Early Childhood Care & Education [ECCE]	1. Interior Decoration (INDC) 2. Garment Design (GMDG) 3. Public Health & First Aid (PHFA)	<i>Papers mentioned in Sl. No. 1 & Sl.No. 2 of this combination must be chosen as VP1, VP2. Choice of 7th subject of all students for a VTC must be either VP3 or AE3.</i>

Common Subject
Class XI & Class XII

Bengali (BEN 1 & BEN 2)

একাদশ ও দ্বাদশ শ্রেণি

Total no. of weeks for classes/ Year : 36		
Classes per week : 3	Th = 2	Project = 1
Total classes per year : 108	Th = 72	Project = 36
Total marks : 100	Th = 80	Project = 20

পূর্ণমান-১০০

গদ্য	-	১৫
কবিতা	-	১৫
নাটক	-	১০
ভাষা	-	২৫
নির্মিতি	-	১৫
প্রকল্প + প্রফ	-	২০ (১৫ + ৫)
মোট	-	১০০

একাদশ শ্রেণি (BEN 1)

গদ্য -

৩০ (পিরিয়ড)

১. শরৎচন্দ্র চট্টোপাধ্যায় - ইন্দ্রনাথ ও শ্রীকান্ত (অংশবিশেষ)
২. রাণী চন্দ - পূর্ণকুম্ভ (অংশবিশেষ)
৩. তারশংকর বন্দ্যোপাধ্যায় - কালাপাহাড়
৪. নারায়ণ গঙ্গোপাধ্যায় - হাড়
৫. সৈয়দ মুজতবা আলী - নোনামিঠা

কবিতা -

৩০ (পিরিয়ড)

১. মধুসূদন দত্ত - আত্মবিলাপ
২. রবীন্দ্রনাথ ঠাকুর - আগমন

৩. কাজী নজরুল ইসলাম - আমার কৈফিয়ৎ
৪. শক্তি চট্টোপাধ্যায় - যেতে পারি, কিন্তু কেন যাব?
৫. অনন্যদাশংকর রায় - কাজ

নাটক — মেবার পতন — দ্বিজেন্দ্রলাল রায় (নির্বাচিত অংশ) ৮ (পিরিয়ড)

ভাষা/ব্যাকরণ — ২০ (পিরিয়ড)

- ভারতে প্রচলিত ভাষা পরিবার। বাংলাভাষার উৎপত্তি ও ক্রমবিকাশ। বাংলা লিপির উৎস ও ক্রমবিকাশ।
- ভাষাবৈচিত্র্য সম্বন্ধে ধারণা। বাংলাভাষার আঞ্চলিক রূপ, সমাজভাষা ও ব্যক্তিভাষার সাধারণ পরিচয়
- সাধুভাষা ও চলিত ভাষা
বানানবিধি

নির্মিত - ১০ (পিরিয়ড)

প্রবন্ধ রচনা

প্রতিবেদন/পত্ররচনা

প্রকল্প - ১০ (পিরিয়ড)

প্রফ

মোট পিরিয়ড ১০৮

দ্বাদশ শ্রেণি (BEN 2)

গদ্য :

৩০ পিরিয়ড

- ১) বঙ্কিমচন্দ্র চট্টোপাধ্যায় - সুবর্ণগোলক
- ২) রবীন্দ্রনাথ ঠাকুর - কঙ্কাল
- ৩) বিভূতিভূষণ বন্দ্যোপাধ্যায় - অভিনন্দন-সভা
- ৪) আশাপূর্ণা দেবী - ঈর্ষা
- ৫) মতি নন্দী - অবিনাশের সাড়ে আটচল্লিশ

কবিতা :

৩০ পিরিয়ড

- ১) রবীন্দ্রনাথ ঠাকুর — প্রার্থনা
- ২) কাজী নজরুল ইসলাম - আমি গাই তারি গান
- ৩) জীবনানন্দ দাশ - সেই দিন এই মাঠ
- ৪) সুভাষ মুখোপাধ্যায় - ভুলে যাব না
- ৫) নীরেন্দ্রনাথ চক্রবর্তী - কলকাতার যীশু

নাটক :

৮ পিরিয়ড

রথের রশি - রবীন্দ্রনাথ ঠাকুর

ভাষা/ব্যাকরণ :

২০ পিরিয়ড

- ১) ধ্বনি - বাগযন্ত্র। বাংলাভাষার ধ্বনি ও বৈচিত্র্য। ধ্বনি পরিবর্তন।
- ২) বাংলাভাষার শব্দ তৈরির কৌশল। শব্দ ও অর্থ।
- ৩) বাক্যের আসক্তি, যোগ্যতা, আকাঙ্ক্ষা। বাংলা বাক্যের গঠন ও গঠনগত ভাগ। অর্থগত ভাগ।
- ৪) প্রবাদ প্রবচন।
- ৫) বিরামচিহ্ন।

নির্মিতি

১০ পিরিয়ড

প্রবন্ধ রচনা (১০ নম্বর)

ভাবসম্প্রসারণ/ভাবার্থ/তথ্যপঞ্জি অনুযায়ী (অনুচ্ছেদ রচনা/প্রবন্ধ রচনা) / মতের পক্ষে বা বিপক্ষে (প্রবন্ধ রচনা)

অনুচ্ছেদ রচনা — (০৫ নম্বর)

প্রকল্প -

১০ পিরিয়ড

প্রফ

প্রকল্পের বিষয়

১. অনুবাদ (ইংরাজী বা হিন্দি ভাষা থেকে বাংলা)
২. সমীক্ষা (Survey Report)
৩. স্বরচিত গল্প রচনা
৪. চরিত্র নির্মাণ (গল্প বা উপন্যাস থেকে যেমন ফেলুদা, ঘনাদা, ব্যোমকেশ)
৫. সাক্ষাৎকার গ্রহণ
৬. সাহিত্যিকদের জীবন, কর্ম ও অবদান

একাদশ এবং দ্বাদশের জন্য যে
কোনো একটি করে মোট দুটি
প্রকল্প নির্বাচন করবে।

মোট পিরিয়ড - ১০৮

	MCQ	VSA	ET	TOTAL
গদ্য	$3 \times 1 = 3$	$2 \times 1 = 2$	$2 \times 5 = 10$	15
কবিতা	$3 \times 1 = 3$	$2 \times 1 = 2$	$2 \times 5 = 10$	15
নাটক	$3 \times 1 = 3$	$2 \times 1 = 2$	$1 \times 5 = 5$	10
ভাষা	$10 \times 1 = 10$	$10 \times 1 = 10$	$1 \times 5 = 5$	25
নির্মিত			$10 + 5$	15
প্রকল্প + প্রফ			$15 + 5$	20
	19	16		100

MCQ : Multiple Choice Questions

VSA : Very Short Answer Type Questions

ET : Essay Type Questions

HINDI (HIN 1 and HIN 2)**एकादश तथा द्वादश श्रेणी**

Total no. of weeks for classes/ Year : 36		
Classes per week : 3	Th = 2	Project = 1
Total classes per year : 108	Th = 72	Project = 36
Total marks : 100	Th = 80	Project = 20

पूर्णमान-१००

गद्य	15
काव्य	15
नाटक	10
भाषा	25
रचना	15
परियोजना	20 (15+ 5)
कुल	100

एकादश श्रेणी (HIN1)**काव्य —****(30 पीरियड)**

सूरदास के पद

भारतेन्दु हरिश्चन्द्र

मैथिलीशरण गुप्त - चारु चन्द्र की चंचल किरणें

बच्चन - अग्नि पथ! अग्नि पथ! अग्नि पथ!

नागार्जुन - अकाल और उसके बाद

गद्य —**(30 पीरियड)**

महावीर प्रसाद द्विवेदी - साहित्य

चन्द्रधर शर्मा गुलेरी - उसने कहा था

अज्ञेय – बहता पानी निर्मला

हरिशंकर परसाई – विकलांग श्रद्धा का दौर

नासिरा शर्मा – सबीना के चालीस चोर

एकांकी —

(8 पीरियड)

उपेन्द्रनाथ अशक – अधिकार का रक्षक

भाषा / व्याकरण —

(20 पीरियड)

हिन्दी भाषा की उत्पत्ति और विकास

देवनागरी लिपि

हिन्दी की उपभाषाएँ

संज्ञा और उसके भेद

सर्वनाम और उसके भेद

विशेषण और उसके भेद

क्रिया और उसके मुख्य भेद

वाच्य परिवर्तन

वाक्य परिवर्तन

प्रत्यय और उपसर्ग

विराम चिन्ह

परिभाषा- प्रशासनिक, कारीगरी (कृषि, वाणिज्य)

रचना विधि —

(10 पीरियड)

निबन्ध

प्रतिवेदन / पत्र

परिभाषिक शब्दावली

परियोजना (Project)

(10 पीरियड)

द्वादश श्रेणी (HIN2)

काव्य —	(30 पीरियड)
तुलसीदास के पद	
जयशंकर प्रसाद – अरी बरुणा की शांत कछार	
दिनकर – समर शेष है	
अज्ञेय – मैंने देखा, एक बूंद	
सर्वेश्वर दयाल सक्सेना – प्रार्थना	
गद्य —	(30 पीरियड)
हजारीप्रसाद द्विवेदी – शिरीष के फूल	
प्रेमचन्द – मंत्र	
कृष्णा सोवती – सिक्का बदल गया	
राहुल सांकृत्यायन – किन्नर देश की ओर	
रवीन्द्रनाथ टैगोर – छुट्टी	
नाटक —	(8 पीरियड)
भुवनेश्वर – ताँबे के कीड़े	
व्याकरण —	(20 पीरियड)
सन्धि, समास, प्रत्यय, उपसर्ग, वाक्य परिवर्तन, वाक्य विश्लेषण	
निबन्ध रचना —	(10 पीरियड)
रिपोर्ट	
भाव विस्तार	
भाषण – पक्ष / विपक्ष	
प्रूफ	
परियोजना (Project)	(10 पीरियड)

अनुवाद – (अंग्रेजी या बांग्ला से हिन्दी में)

समीक्षा (Survey Report)

स्व रचित कहानी

कहानी का नाटक में परिवर्तन

साक्षात्कार

प्रमुख साहित्यकारों की जीवनी

	MCQ	VSA	ET	TOTAL
गद्य	3×1=3	2×1=2	2×5=10	15
पद्य	3×1=3	2×1=2	2×5=10	15
नाटक	3×1=3	2×1=2	1×5=5	10
भाषा	10×1=10	10×1=10	1×5=5	25
रचना			10 + 5	15
परियोजना + प्रूफ			15 + 5	20
	19	16		100

MCQ : Multiple Choice Questions

VSA : Very Short Answer Type Questions

ET : Essay Type Questions

नेपाली (NEP 1 and NEP 2)
(एघारौँ र बाह्रौँ श्रेणी)

Total no. of weeks for classes/ Year : 36

Classes per week : 3

Th = 2

Project = 1

Total classes per year : 108

Th = 72

Project = 36

Total marks : 100

Th = 80

Project = 20

पूर्णमान-१००

गद्य	-	१५
पद्य	-	१५
नाटक	-	१०
भाषा	-	२५
रचना	-	१५
परियोजना	-	२०
पूर्णाङ्क	-	१००

एघारौँ श्रेणी (NEP1)

पद्य

(३० पिरियड)

- | | | |
|--------------------------|---|------------------------------|
| १. लक्ष्मीप्रसाद देवकोटा | - | जिन्दगीको मौसम |
| २. बालकृष्ण सम | - | स्वर्ग आफै बन्छ |
| ३. धरणीधर कोइराला | - | साहित्य सुधा |
| ४. रवीन्द्रनाथ ठाकुर | - | प्रार्थना (जहाँ मन निर्भय छ) |
| | | अनु. बालकृष्ण सम |

गद्य

(३० पिरियड)

- | | | |
|----------------------|---|-------------|
| १. गुरुप्रसाद मैनाली | - | कर्तव्य |
| २. रूपनारायण सिंह | - | बितेका कुरा |

३. हरिप्रसाद 'गोर्खा' राई – गोर्खाको मोडेल
 ४. राजनारायण प्रधान – गान्धी

नाटक

(८ पिरियड)

- मनबहादुर मुखिया – 'चिडियाखाना' एकाङ्की मात्र (अँध्यारामा बाँचेहरू)
 – बाट

भाषा/व्याकरण

(२० पिरियड)

१. भाषा – परिभाषा, भाषा र व्याकरणको सम्बन्ध, नेपाली भाषाको परिचय।
 २. लिङ्ग – परिभाषा, प्रकार, पुलिङ्गबाट स्त्रीलिङ्ग बनाउने विधि।
 ३. वचन – परिभाषा, प्रकार, एकवचनबाट बहुवचन बनाउने विधि।
 ४. विराम चिन्ह – पूर्णविराम, अर्धविराम, प्रश्नसूचक चिन्ह, विस्मयादिबोधक चिन्ह।

रचना

(१० पिरियड)

- प्रबन्ध रचना
- प्रतिवेदन / पत्ररचना

परियोजना (प्रोजेक्ट)

(१० पिरियड)

(तलका मध्ये कुनै एउटा विषयमा मात्र)

१. एच. आई. भी. एड्स रोग सङ्क्रमण र यसको रोकथामका उपायहरू (एक हजारदेखि पन्ध्र सय शब्दभित्र)
 २. दार्जिलिङ पहाडी क्षेत्रमा खानेपानीको समस्या र यसको समाधानका प्रयास, कारबाही र नयाँ उपायहरू (एक हजारदेखि पन्ध्र सय शब्दभित्र)।
 ३. आफूले गरेको कुनै एउटा रोमाञ्चक यात्राको विवरण (पन्ध्र सय शब्दभित्र)।
 ४. आफू सहभागी रहेको कुनै एउटा जिल्ला स्तरीय सामाजिक, सांस्कृतिक वा साहित्यिक कार्यक्रमको विवरण (पन्ध्र सय शब्दभित्र)।
 ५. दार्जिलिङ पहाडी क्षेत्रको पर्यटन व्यवस्था र व्यवसायको स्थिति तथा यसको सुधारको सम्भावना पन्ध्र सय शब्दभित्र)।

बाह्रौँ श्रेणी (NEP2)

पद्य

(३० पिरियड)

१. लक्ष्मीप्रसाद देवकोटा – यात्री
२. गोपाल प्रसाद रिमाल – एक दिन एक चोटी आउँछ
३. भूपि शेरचन – शहीदहरूको सम्झनामा
४. नरबहादुर दाहाल – पतझड

गद्य

(३० पिरियड)

१. रामकृष्ण शर्मा – प्यारो सपना
२. लैनसिंह बाड्देल – मूर्तिकारको धोको
३. शिवकुमार राई – माछाको मोल
४. इन्द्रबहादुर राई – रातभरि हुरी चल्यो

नाटक

(८ पिरियड)

- मनबहादुर मुखिया – ‘अँध्यारामा बाँचेहरू’ एकाङ्की मात्र (अँध्यारामा बाँचेहरूबाट)

भाषा – व्याकरण

(२० पिरियड)

- तत्सम, तद्भव र आगन्तुक शब्द ।
- नेपाली उखान, तुक्का र वाग्धारा ।
- पर्यायवाची, विपरीतार्थक र सार शब्द ।
- नेपाली वर्तनी प्रयोग विधि (हिज्जे) ।

रचना

(१० पिरियड)

- भावविस्तार वा सारांश लेखन
- विज्ञापन लेखन
- प्रबन्ध रचना
- अङ्ग्रेजीबाट नेपाली अथवा नेपालीबाट अङ्ग्रेजीमा अनुवाद

परियोजना (प्रोजेक्ट)

(१० पिरियड)

(तलकामध्ये कुनै एउटा विषयमा मात्र)

- नशालु पदार्थ सेवनले युवावर्गमा पारेको नकारात्मक प्रभाव (एक हजारदेखि पन्ध्र सय शब्दभित्र) ।
- कुनै दुईजना प्रसिद्ध नेपाली साहित्यकारहरूको साहित्यिक परिचय र तिनले पुण्याएको योगदानको मूल्याङ्कन (एक हजारदेखि पन्ध्र सय शब्दभित्र) ।
- विश्वधरोहर घोषित दार्जिलिङ हिमालयन रेलको इतिहास र वर्तमान समयमा यसको अवस्था (एक हजारदेखि पन्ध्र सय शब्दभित्र) ।
- दार्जिलिङ पहाडी क्षेत्रमा भल-पैहो, बाटाघाटा र पुल – साँघुहरूको दूरावस्थाले जनजीवनमा ल्याएको सङ्कट निवारण गर्ने उपायहरू (एक हजारदेखि पन्ध्र सय शब्दभित्र) ।
- चामे ('परालको आगो'), गौथली ('परालको आगो'), रने ('माछाको मोल'), मोटा राई ('भ्रमर') कालेकी आमा ('रातभरि हुरी चल्यो') – को चरित्र चित्रण (एक हजारदेखि पन्ध्र सय शब्दभित्र) ।

	MCQ	VSA	ET	TOTAL
गद्य	3×1=3	2×1=2	2×5=10	15
पद्य	3×1=3	2×1=2	2×5=10	15
नाटक	3×1=3	2×1=2	1×5=5	10
भाषा	10×1=10	10×1=10	1×5=5	25
रचना			10 + 5	15
परियोजना			15 + 5	20
	19	16		100

MCQ : Multiple Choice Questions

VSA : Very Short Answer Type Questions

ET : Essay Type Questions

सन्दर्भ

१. प. ब. उच्च माध्यमिक शिक्षा परिषद् – नेपाली 'ए' (एघारौं र बाह्रौं श्रेणीका निम्ति)
२. प. ब. उच्च माध्यमिक शिक्षा परिषद् – नेपाली 'बी' (एघारौं र बाह्रौं श्रेणीका निम्ति)
३. प. ब. माध्यमिक शिक्षा परिषद् – नेपाली 'बी' (नवौं र दसौं श्रेणीका निम्ति)
४. घनश्याम नेपाल र पुष्कर पराजुली – माध्यमिक नेपाली व्याकरण र रचना
५. घनश्याम नेपाल र कविता लामा – उच्च माध्यमिक नेपाली व्याकरण र रचना
६. मनबहादुर मुखिया – अँध्यारामा बाँच्नेहरू (एकाङ्की सङ्ग्रह)
७. जेम्स कार्थक – नेपाली साहित्यका केही प्रतिभाहरू

Urdu (URD 1 & URD 2)**Class XI & XII**

Total of weeks for classes/year: 36		
Classes per week: 3	Th=2	Project =1
Total classes per year:108	Th=72	Project = 36
Total marks: 100	Th= 80	Project = 20

Full Marks - 100

Prose:	15 Marks
Poetry:	15 Marks
Drama :	10 Marks
Language :	25 Marks
Composition:	15 Marks
Project+Proof:	20 Marks (15+5)
Total :	100

Class – XI (URD 1)**Poetry**

(30 Periods)

1. Faqiron ki sada (Nazm) – Nazir Akbarabadi
2. Mad-o-Jazar-e-Islam (Nazm) – Knwja Altaf Hussain Hali
3. Patta Patta, Boota Boota (Ghazal) - Mir Taqi Mir
4. Phir Mujhe Deeda-e-tar.. (Ghazal) - Mirza Ghalib
5. jab Daagh-e-Bekasi... (Mirthia)- Mir Anis

Prose

(30 Periods)

1. Quissa Khwaja Sag-parast ka- (From “Bagh-o-Bhahar”)-Mir Amman
2. Mir Mehdi Majrooh ke naam (Letter) - Mirza Ghalib
3. Ummeed ki Khushi- (Essay) - Sir Syed
4. Hasan Nizami ki hasti...(From Aap Beeti) - Khwaja Hasan Nizami
5. “Kal raat paani barsa...” (Letter) Faiz Ahmad Faiz

Drama: Said-e-Hawas by Agha Hashr (First Act-two scenes)

(8 Periods)

Language/Grammar

(20 Periods)

- Families of Indian Language
- Origin & Development of Urdu Language in India.
- Dialects of Western Hindi
- Daccani and Gujri urdu. Language of Sufi Saints.
- Characteridtics of Urdu Language in Northern & Southern India.
- Development of Urdu Language in Bengal
- Contributions of Fort William College, Calcutta. Beginning of Simple Urdu, Style of prose writing in Bahar-o-Bahar by Mir Amman & Letters of Mirza Ghalib.

Composition

Easy Writing

Report/Letter Writing

(10 Period)

Project

Proof

(10 Period)

Class – XII (URD2)

Poetry

(30 Periods)

1. Dar Madh Bahadur Shah Zafar (Qasida) - Sk. Ibrahim Zauq
2. Masti mein Farogh-e-Rukh-e-janan (Ghazal) - Asghar Gondvi
3. Isaan aur Bazm-e-Qudrat (Poem) - Sir Md. Iqbal
4. Fakhta ki Awaz-(Poem)-Josh Malihabadi
5. Dard Ayega Dabey Paaon (Poem) - Faiz Ahmad Faiz

Prose

(30 Periods)

1. Bahadur Shah aur Phool walon ki sair- Farhatullah Baig
2. “Guzashta saal jab hum... (From Ghubar-e-Khatir) Maulana Azad
3. Insan kisi haal mein (From” Nairang-e-Khayal”) Md. Hussain Azad

4. Md. Ali jauhar (From Ganj-hai Giran-maya)- Rashid A. Siddiqui

5. Addu-(Short Story)- Jeelani Bano

Drama

Drama “Kheti” By: Prof. Md. Mujeeb (First Two Acts) (8 Periods)

Language/Grammar (20 Periods)

- Different parts of Urdu Grammar-Ilm-e-Hijja, Ilm-e-Huroof, Ilm-e-Nahv, Ilm-e-Bayan, Ilm-e-Urooz.
- Types of Huroof-Mufrid & Murakkab.
- Synonym & Antonym
- *I'raab* (sings)
zabar,zer,paish,jazam,mudd,tashdeed, tanveen,hamza,mauqoof.
- Different types of Gender, number, Tense in Urdu.
- Phrases & Proverbs.
- Construction of Sentences in urdu

Composition (10 Periods)

- Eassy Writting (10 Marks)
- Expression of Thoughts/Summary/Substance/Expand the idea
- Paragraph Writing (5 Marks)

Project

Proof (10 Periods)

Topic of Project

1. Translation (From English to Urdu)
2. Survey Report
3. Self-composed Story
4. Characterization (From Story or Novel like Asghari Akbari from “Miratul-Uroos”, Mirza Zahirdar Baig from “Taubatun Nasooh”)

For Class XI & XII one each topic will be selected. In total two topics will be selected.

5. Taking Interview

6. Writer’s life, work & achievement.

	MCQ	VSA	ET	TOTAL
Prose	3×1=3	2×1=2	2×5=10	15
Verse	3×1=3	2×1=2	2×5=10	15
Drama	3×1=3	2×1=2	1×5=5	10
Language	10×1=10	10×1=10	1×5=5	25
Composition			10+5	15
Project+Proof			15+5	20
	19	16		100

MCQ : Multiple Choice Questions

VSA : Very Short Answer Type Questions

ET : Essay Type Questions

References:

1. Urdu Selection of Prose & Verse, 2013. Published by W.B. Council of Higher Secondary Education
2. Maquddama-e-Tarikh-e-Zaban-e-Urdu. By: Msood Hussain Khan
3. Drama “Said-e-Hawas”. By Agha Hashr
4. Drama Kheti. By: Prof. Md. Mujeeb
5. Bengal mein Urdu. By: Wafa Rashidi
6. Mashraqi Bengal mein Urdu. By: Iqbal Azim

English (ENG1)**Class XI**

1. Total Classes Per Week: 3	Theoretical: 2	Project/Tutorial:1
2. Total Classes Per Year:108	Theoretical: 72	Project/Tutorial:36
3. Total Marks: 100	Theoretical: 80	Project:20

I. Topics**Theoretical And Project Work****(80 Marks + 20 Marks)**

1. Prose: 20 Marks
2. Poetry: 20 Marks
3. Drama (One-act Play): 10 Marks
4. Rapid Reader (Comprehension): 10 Marks
5. Textual Grammar: 10 Marks
6. ESP (Personal Letter Writing/Official Letter Writing/Paragraph Writing): 10 Marks
7. Project Work : 20 Marks

Total: 100 Marks

II. Detailed Content And Period Allocation

A. Theoretical:

1. Prose 15 Periods

- i. “Lalajee” By Jim Corbett
- ii. “Cinderella” - Traditional
- iii. “The School That I Would Like” By William

2. Poetry

- i. “The Solitary Reaper” by William Wordsworth 9 Periods
- ii. “In Time of ‘The Breaking of Nations’” by Thomas Hardy
- iii. “The Owl” by Edward Thomas

3. Drama (One-Act Play) 10 Periods

“The Death-trap” By H. H. Munro (Saki)

4. Rapid Reader 12 Periods

“My Boyhood Days” By Rabindranath Tagore

5. Textual Grammar 16 Periods

- i. Narration Change
- ii. Voice Change
- iii. Transformation of Sentences
- iv. Joining / Splitting
- v. Filling in the blanks with correct forms of given verbs

6. English For Special Purpose (ESP) 10 Periods

- i. Personal Letter Writing (Within 120 Words)
- ii. Official Letter Writing (Within 120 Words)
- iii. Paragraph Writing (Within 120 Words)

B. Project/Tutorial:

1. Project Work

- i. Interview of a teacher / a member of the staff of the school / a member of the family / imaginary interview of a famous person, whether past or present
- ii. Picture description 10 Periods

- iii. Autobiography of a non-living object, e.g. a pen / a coin / a book etc.

Note: For Project Work In Class XI, one out of the three above.

2. Tutorial

26 Periods

On theoretical work, specially Textual Grammar and ESP

III. Question Pattern And Marks Allotment

A. Theoretical: 80 Marks

1. Prose: 20 Marks

MCQ (4 Alternatives)	Word limit not applicable (4 out of 4)	$1 \times 4 = 4$ Marks
SAQ (6 Out of 10)	In a single sentence	$1 \times 6 = 6$ Marks
DAQ	In about 75 words (2 out of 3)	$5 \times 2 = 10$ Marks

2. Poetry: 20 Marks

MCQ (4 Alternatives)	Word limit not applicable (4 out of 4)	$1 \times 4 = 4$ Marks
SAQ	In a single sentence (6 out of 10)	$1 \times 6 = 6$ Marks
DAQ	In about 75 words (2 out of 3)	$5 \times 2 = 10$ Marks

3. Drama: 10 Marks

MCQ (4 Alternatives)	Word limit not applicable (3 out of 3)	$1 \times 3 = 3$ Marks
SAQ	In a single sentence (2 out of 4)	$1 \times 2 = 2$ Marks
DAQ	In about 75 words (1 out of 3)	$5 \times 1 = 5$ Marks

MCQ : Multiple Choice Questions

VSA : Very Short Answer Type Questions

ET : Essay Type Questions

4. Rapid Reader: 10 Marks (Only Comprehension Passage)

Rearrange	5 Marks
True/False	$1 \times 3 = 3$ Marks
Table completion	$1 \times 2 = 2$ Marks

5. Textual Grammar: 10 Marks

Narration change	1 Mark
Voice change	1 Mark
Transformation of sentences	$1 \times 3 = 3$ Marks
Joining/ Splitting	$1 \times 2 = 2$ Marks
Filling in the blanks with correct forms of given verbs	$1 \times 3 = 3$ Marks

6. ESP: 10 Marks

Personal letter writing (within 120 words)	10 Marks
Official letter writing (within 120 words)	10 Marks
Paragraph writing (within 120 words)	10 Marks

All three to be set as questions. Any one to be attempted

B. Project Work: 20 Marks

- i. Interview of a teacher / a member of the staff of the school / a member of the family / imaginary interview of a famous person, whether past or present
- ii. Picture description
- iii. Autobiography of a non-living object, e.g. a pen / a coin / a book etc.

Note: For Project Work in Class XI, one out of the three above.

Word Limit For Project Work: 800 - 1000 Words.

English (ENG2)**Class XII**

1. Total Classes Per Week: 5	Theoretical: 2	Project/Tutorial: 3(1+2*) <i>*2 periods for developing communicative skills in English</i>
2. Total Classes Per Year:180	Theoretical: 72	Project/Tutorial: 36 Developing communicative skills in English : 72
3. Total Marks: 100	Theoretical: 80	Project:20

I. Topics**Theoretical and Project work****(80 marks + 20 marks)**

1. Prose: 20 Marks
2. Poetry: 20 Marks
3. Textual Grammar: 10 Marks
4. ESP (Personal Letter Writing/Official Letter Writing, CV (Curriculum Vitae) Writing/ Report Writing, but no newspaper report): 10 Marks
5. Unseen Comprehension: 15 Marks
6. Project Work (Internal): 20 Marks

TOTAL: 100 MARKS**B. Developing Communicative Skills in English****(No marks allotted)**

Beside being an independent area for developing communicative skills, this is also an area for preparation for Project Work and for developing skills in writing ESP items.

1. To develop listening and speaking skills.
 - (i) **Listening Skill** – Teachers will read out a passage to the students three times — first time for listening, second time for writing down and third time for verifying, after which teacher will assess the listening skill of the students by examining the scripts of the students. The passages are to be selected by the teacher from school textbooks of a comparable level, or newspapers, magazines, journals etc., so as to be

accessible by the students within their vocabulary capacity. The scripts of the students should be carefully preserved by the institutions.

- (ii) **Speaking Skill** – Teachers will ask the students to read out a passage, and the teachers will assess the speaking skill of the students. The passages are to be selected by the teacher from school textbooks of a comparable level, or newspaper, magazines, journals etc., so as to be accessible by the students within their vocabulary capacity. Passages given to the students for reading out should be carefully preserved by the institutions.

Note: *Students shall be tested on listening and speaking skills - the two components of the Project Work of 20 marks.* (Refer to B. Project Work under III. Question Pattern and Marks Allotment)

2. To Practise the items in English for Special Purpose (ESP).

- (i) Personal Letter Writing (ii) Official Letter Writing (iii) CV Writing (iv) Report Writing (No Newspaper Report).

Note: *ESP to be tested in the theoretical part of 80 marks.* (Refer to III.A.4)

II. Detailed Content and Period Allocation

A. Theoretical:

1. Prose	15 periods
i. “Three Questions” by Leo Tolstoy	
ii. “The Parrot’s Training” by Rabindranath Tagore	
iii. “The Face of Judas Iscariot” by Bonnie Chamberlin	
2. Poetry	10 periods
i. “I Remember, I Remember” by Thomas Hood	
ii. “Break, Break, Break” by Lord Tennyson	
iii. “The Send-off” by Wilfred Owen	
3. Textual Grammar	20 periods
i. Narration change	
ii. Voice change	
iii. Transformation of sentences	
iv. Filling in the blanks with articles and prepositions	
v. Correction of errors	
4. English for Special Purpose (ESP)	12 periods
i. Personal Letter Writing (within 120 words)	
ii. Official Letter Writing (within 120 words)	
iii. CV Writing (within 120 words)	
iv. Report Writing (NO NEWSPAPER REPORT) (within 120 words)	
5. Unseen Comprehension	15 periods

B. Project/Tutorial:**1. Project Work** 10 Periods

- i. Listening Skill
- ii. Speaking Skill

2. Tutorial 26 Periods

On theoretical work, specially on textual questions and textual grammar

3. Developing Communicative Skills in English:

- i. Developing Listening Skill 24 Periods
- ii. Developing Speaking Skill 24 Periods
- iii. Practice of ESP items 24 Periods

III. Question Pattern And Marks Allotment

Total Marks: 100 (Theoretical:80, Project Works: 20)

A. Theoretical:**1. Prose: 20 Marks**

MCQ (4 Alternatives)	Word limit not applicable (4 out of 4)	$1 \times 4 = 4$ Marks
SAQ	In a single sentence (6 out of 8)	$1 \times 6 = 6$ Marks
DAQ	In about 75 words (2 out of 3)	$5 \times 2 = 10$ Marks

2. Poetry: 20 Marks

MCQ (4 Alternatives)	Word limit not applicable (4 out of 4)	$1 \times 4 = 4$ Marks
SAQ (6 out of 8)	in a single sentence	$1 \times 6 = 6$ Marks
DAQ (2 out of 3)	in about 75 words	$5 \times 2 = 10$ Marks

3. Textual Grammar: 15 Marks

Narration Change	1 × 2 = 2 Marks
Voice Change	1 Marks
Transformation of Sentences	1 × 6 = 6 Marks
Filling in the Blanks With Articles and Preposition	1 × 3 = 3 Marks
Correction of Errors	1 × 3 = 3 Marks

4. ESP: 10 Marks

Personal Letter (within 120 words)	10 Marks
Official Letter (within 120 words)	10 Marks
CV Writing (within 120 words)	10 Marks
Report Writing (No Newspaper report) (within 120 words)	10 Marks
<i>Any three out of the four above to be set as questions, any one to be attempted</i>	

5. Unseen Comprehension: 15 Marks

Rearrange	5 Marks
True/False	1 × 4 = 4 Marks
Table Completion	2 × 3 = 6 Marks

B. Project Work : 20 marks

i. Test of Listening Skill	10 Marks
ii. Test of Speaking Skill	10 Marks

Entrepreneurship Development & Computer Application (EDCA)

Class XI

Total no. of weeks for classes / Year: 36		
Classes per week: 8	Th=4	Practical/Project=4
Total classes per year: 288	Th=144	Practical/Project = 144
Total marks: 100	Th= 50	Practical = 25 Project = 25

Course Contents:

Theory:

Group A (Entrepreneurship Development)

Theory (25 marks, 72 Periods)

Module I : Overview and definition of Entrepreneurship

[Period - 6]

- Content:**
1. Definition of Entrepreneurship
 2. Definition of Entrepreneur
 3. Qualities of an Entrepreneur
 4. Creativity and Risk-taking

Module II : Basic forms of Small Business

[Period -14]

- Content:**
1. Sole Proprietorship - Advantages & disadvantages
 2. Partnership - Advantages & disadvantages
 3. Corporations- Advantages & disadvantages
 4. Special forms of business -
 - (i) Franchises (Home based and Web bascd), (ii) Self-help Group
 5. Reasons for success / failure of small business

Module III : Legal Requirements for starting a small business

[Period -16]

- Content:**
1. Government Policies
 2. Government incentives to small businesses
 3. Licensing
 4. Clearance from Pollution Control Board
 5. Others

Modulc IV : Managerial Requirements for starting a small business**[Period - 22]**

- Content:**
1. Planning
 2. Financing
 3. Marketing
 4. Human Resource Development
 5. Accounting

Module V : Contents of a Project Report for starting a Business**[Period -14]**

1. Narrc of the Applicant
2. Address of Communication
3. Name ofthe Proposed Enterprise (If Decided)
4. Proposed Location of Enterprise
5. Category of Enterprise
 - (i) Micro (ii) Small (iii) Medium
6. Nature of Activity
 - (i) Manufacture (ii) Service
7. Nature of Operation
 - (i) Perennial (ii) Seasonal (iii) Casual
8. Type of Organisation
 - (i) Proprietary (ii) Partnership (iii) Self-help Groups (iv) Others
9. (a) Main Manufacturing/Service Activity
 - (b) Products to Be Manufactured/Service to Be Provided
10. (a) Proposed Investment In Fixed Assets [Rupees In Lakh]
11. Installed Capacity (Proposed) per Annum
 - (i) Quantity (ii) Unit
12. Power Load (Anticipated)
13. Other Sources of Energy/Power
14. Expected Employment

15. Expected Schedule of Commencement of Production/Activity

16. Entrepreneurs' Profile:

(i) Name (ii) Gender (iii) Community (iv) Knowledge Level

Reference Book :

1. Entrepreneurship Development (in English) - S. Anil Kumar- Jain Book Agency
2. Entrepreneurship Development & Management (in English) - Dr. A. K. Singh
3. Entrepreneurship and Small Business Development (in English) - Kiran Sankar Chakraborty
4. Entrepreneurship Development & Computer Applications (in English & Bengali, bilingual version)- Bhagabati Publications

Group B (Computer Applications)

Theory (25 Marks, 72 Periods)

Unit 1: Introduction to Computer Systems

(Periods 22)

- Definition of Computers
 - Features of Computers
 - Functions of Computers
- Evolution of Computers
 - Abacus, Napier's Bone, Pascaline, The Babbage Machine
- Generations of Computers
 - First, Second, Third, Fourth and Fifth Generations of Computers
- Classifications of Computers (Concept only)
 - Analogue, Digital, Hybrid Computers
 - Mainframe and Super Computers
 - Mini, Micro, Laptop Computers
 - Computer Systems
 - Hardware, Software, Data & Information, People
- Computer Organization
 - Block Diagram of a Computer
 - Central Processing Unit: CU, ALU
 - The Bus : Data and Address Bus

- Input Devices
 - Keyboard, Mouse, Scanner, OMR, OCR, Barcode Reader, Joystick, Light Pen
- Output Devices
 - Monitor, Printer, Plotter
- Computer Memory
 - Cache, Primary, Secondary Memory

Unit 2 : Number Systems and Computer Codes**(Periods 24)**

- Concept Non-positional Number System
 - Roman Number System
- Concept Positional Number System
 - Binary, Octal, Decimal and Hexadecimal Number System
- Inter-conversion between the Number Systems
- Arithmetic
 - Addition, Subtraction, Multiplication and Division of Binary Numbers
- Complements: 1's and 2's Complements, Binary Addition and Subtraction using 1's and 2's Complement methods
- Representation of Numbers: Integer and Floating Point Representation
- Integer and Floating Point Arithmetic
- Computer Codes
 - BCD, ASCII, Gray, Excess-3 Code

Unit 3: Computer Software and Programming Languages**(Periods 26)**

- Definition of Software
- Classification of Softwares
 - System Software
 - Translator: Compiler, Interpreter. Assembler
 - Operating Systems
 - Definition and functions of OS
 - Classification: Single User, Multi User, Multiprogramming, Timesharing Operating System (Definitions only)
 - Booting: Cold and Warm Booting (Definitions only)
 - Concept of GUI and CUI
 - MS DOS: Popular Internal and External Commands only
 - Concept of Windows OS (Windows 2007 and Compatible)

- Application Software
- Concept of Problem Solving
 - Algorithm, Flowchart (Definitions and Examples)
- Concept of High and Low Level Languages

Reference Book:

1. Fundamentals of Computers - McGraw Hill Education, Balagurusamy
2. Fundamentals of Computers - Oxford University Press, by Thareja
3. Fundamentals of Computers - PHI Pvt. Ltd., by Rajaraman

Project - (25 Marks, 36 Periods)

Entrepreneurship Development

1. Every student should exercise the “Entrepreneurship Readiness Questionnaire” to assess the Entrepreneurial Potential in him.

The assessment is to be made by the student himself or herself, and is required to be ratified by the subject teacher.

Entrepreneurship Readiness Questionnaire

[Period -18, Marks allotted-10]

Purpose :

This exercise is intended to assess the subtle qualities of a student. Not everyone is cut out to be an entrepreneur. The fact is, there are certain traits, however, that seem to separate those who will be successful as entrepreneurs from those who may not be. This questionnaire will help to determine in which category a student fits better.

Each student is required to put a tick (✓) mark for each question which best describes his/her traits.

Markings:

- For Question numbers 01,02,06,08,10,11,16,17,21,22,23

One mark for each tick mark is to be awarded to a student if his/her responses to these questions fall under “Agree Completely” and “Mostly Agree”. No marks will be awarded for this group of questions if the responses fall under “Partially Agree”, “Mostly Disagree” or “Disagree Completely”.

- For Question numbers 03,04,05,07,09,12,13,14,15,18,19,20,24,25

One mark for each tick mark is to be awarded to a student if his/her responses to these questions fall under “Mostly Disagree” and “Disagree Completely”. No marks will be awarded for this group of questions if the responses fall under “Agree Completely”, “Mostly Agree” or “Partially Agree”.

Ques. No.	The Question	Agree Completely	Mostly Agree	Partially Agree	Mostly Disagree	Disagree Completely
01.	I am generally optimistic					
02.	I enjoy competition and always try to do things better than my competitor					
03.	In solving a problem, I always try to get the best solution first and do not worry about other solutions of the problem					
04.	I enjoy association of my friends after school hours and attending local club every evening					
05.	If I am asked to bet for an event, I try to bet in favour of that outcome which may earn maximum profit for me					
06.	I like setting my own goals and working hard to achieve them					
07.	I am generally casual and do not take anything seriously					
08.	In taking action for any event, I first like to know what is going on in that event: that is I do not take any action without having strong idea on the event					
09.	I work best under the guidance of someone else					
10.	I can convince others, if I am in right position					
11.	I find that other people/friends frequently waste my time					
12.	I enjoy watching football, cricket and other sports events					
13.	I tend to communicate about myself openly with other people					
14.	I do not mind following orders from any person, elder or younger, who has authority to order me (e.g. to follow the order of the captain of your school team, to which you are also a member, and the captain may be older than or younger to you)					

Ques. No.	The Question	Agree Completely	Mostly Agree	Partially Agree	Mostly Disagree	Disagree Completely
15.	I enjoy more in planning things and less in executing plans					
16.	I donot like to bet on any event that has more chance to occur					
17.	If my attempt to any action fails, I quickly shift to something else and do not stick to the failed action					
18.	To become successful in business, I think enough time should be kept reserved for my family members/friends					
19.	When I earn some money, I donot use it for unnecessary causes, rather I keep it secured for use in future emergencies					
20.	I think that making a lot of money is a turning point in life					
21.	If a problem has a number of alternatives, solving that problem becomes more effective					
22.	I enjoy impressing others with the things that I can do very well					
23.	I enjoy playing carrom, chess, badminton, cards etc. with a person/friend who plays better than me					
24.	In business dealings, I think moral ethics of a person must be bent a little to get things done					
25.	I think that good friends always make another good					

Result:

Your Score	Your Entrepreneurial Potential
21- 25	You have great entrepreneurial potential
16 - 20	You could be quite successful entrepreneur if your other talents and resources are right
11 - 15	You are in transitional range. With some serious work you can probably develop the outlook you need for running your own business
06 - 10	Your entrepreneurial potential is doubtful. It would take considerable re-arrangement of your life philosophy and behavior to make it
00 - 05	Entrepreneurship is not really for you.

2. Visit the owner of a small business in your locality. Collect data/information from the business person with regard to the following points -
 1. Type of business
 2. Type of customers (e.g. for business dealing with educational stationery, customers are mainly school and college students etc.)
 3. Sources of raw materials
 4. Monthly / annual sales (approximate figures)
 5. Monthly / annual profit (approximate figures)
 6. Threats to the business (like funding, nearest competitor, obsolescence of the product etc.)
 7. Opportunities to the business
 8. Future plans

OR

3. Collect the story of a successful entrepreneur from magazines, journals or through Internet. Read his/her success stories and write an essay on the fact highlighting following points -
 1. What motivated the person to start his/her own business?
 2. How the entrepreneur selected the type of business?
 3. What were the obstacles the entrepreneur faced at the beginning?
 4. How the entrepreneur overcame the obstacles?
 5. What did you learn from the story?

You can take the examples of Great Indian Entrepreneurs from internet by searching

1. Successful Indian Entrepreneurs
2. Success stories of small entrepreneurs
3. Successful Woman Entrepreneurs and so on

[Period -18, Marks - 15]

Practical : (25 Marks, 108 Periods)

Computer Applications

- Windows OS (MS Windows 2007 or Compatible)
 - Starting and Shuting down Windows
 - Working with Taskbar, Control Panel and Desktop Icons
 - Changing Desktop Background
 - Locking or Unlocking, Hiding or Unhiding Taskbar
 - Working with Windows Search and Help
 - Working with Windows Libraries and Wndows Explorer
 - Managing Files and Folders
 - Working with Windows Accessories
- DOS: Working with MS DOS Commands as in theory part
- Word Processing (MS Word 2007 or Compatible)
 - Creating, Opening, Editing, Formatting and Saving Word Document
 - Working with Page Setup, Headers and Footers
 - Inserting Clip-Art, Word-Art, Auto Shapes, Picture, Symbols, Equation
 - Working with Table Insertion, Spelling and Grammar Check
 - Working with Mail Merge and Macros
 - Working with Printer Setup and Document Printing
- Spread Sheet (MS Excel 2007 or Compatible)
 - Creating, Opening, Editing and Saving Word
 - Changing Rows and Column Width
 - Formatting Cells and Entering values
 - Use of In-built Commands
 - SUM, PRODUCT, AVERAGE, MAX, MIN, COUNT, IF, OR, NOT, DATE, TIME, UPPER, LOWER
 - Working with Auto Fill, Conditional Formatting
 - Sorting and Filtering Data
 - Working with Charts
- The Internet
 - Browsing the Internet
 - Using Search Engines
 - Creating and accessing E-mails
 - Sending /Receiving mails with attachments

Environmental Studies (ENST)**Class XII****Total of weeks for classes/year: 36****Classes per week: 2****Total classes per year:72****Th=58****Project = 14****Total marks: 100****Th= 80****Project = 20****Unit Wise Distribution of Marks and Periods**

	Unit	Marks	No. of Periods
	I	05	04
	II	06	05
	III	08	06
	IV	06	04
	V	08	05
	VI	10	08
	VII	10	08
	VIII	06	04
	IX	07	05
	X	06	03
	XI	06	04
	XII	02	02
Total	12	80	58

Course content :**Theory :****Unit I Introduction**

- i What is environment
- ii Physical, Biological and Social Environment
- iii Perception of environment in ancient India
- iv Indian society and environment: Indian heritage, custom and culture

Unit II Man and Environment-A

- i Origin of Earth - evolution of its land, ocean and atmosphere
- ii Development of Life - its impact on atmospheric composition - emergence of terrestrial life - emergence of homosapien sapiens
- iii Earth - a dynamic system - present day environment is a result of continuing geological and life processes and interaction between them.
- iv Anthropogenic activities and their impact on environment
- v Impact of human activities on environment since industrial revolution.

Unit III Man and Environment-B

- i Urban and rural environment
- ii Impact of urbanisation on environment
- iii Impact of development on environment
- iv Impact of population on environment
- v Impact of poverty on environment
- vi Impact of bad habits (e.g. spitting, responding to nature's call in the open) and superstition on environment
- vii Wanton destruction of environment for personal greed
- viii Degradation of natural wealth by human activities
- ix Importance and need of environmental studies.

Unit IV Disaster and Environment

- i Impact of Natural Disasters - earthquakes, volcanic eruptions, forest fires, cyclones, typhoons, hurricanes, tornados, floods, landslides.
Impact of Man Made Disasters -
Destruction of Hiroshima and Nagasaki by atom bomb,
- i Bhopal Gas Tragedy, Chernobyl accident and Minamata disease.

Unit V Environmental Pollution - A

- i Pollution and pollutant
- i Air Pollution - pollutants (solids, liquids and gases) and their sources, adverse effects of air pollution, control of air pollution
AIR QUALITY
Smog - classical smog and photochemical smog, condition for photochemical smog event, selected photochemical smog species, adverse effects of photochemical smog, control
- iii Land Pollution - pollutants and their sources, adverse effects and control
- iv Water Pollution - pollutants and their sources, adverse effects and control.
Quality of drinking water

Unit VI Environmental Pollution - B

- i Acid Rain - causes of acid rain, adverse effects and control
- i Greenhouse Gases - their sources, greenhouse effect and global warming, effects of global warming, measures to control global warming.
- iii Ozone Layer - its range and importance, how it prevents harmful uv radiation from falling on earth.
Depletion of ozone layer - causes and effects.
Antartic and Arctic so called “ozone hole” - its adverse effects.
- iv Adverse effects of tobacco smoking including indoor tobacco smoking
- v Adverse effects of e-wastes and plastics on environment
- vi Radiation pollution
- vii Noise pollution
- viii Odour pollution, pollen pollution
- ix Thermal pollution
- x Metal pollution - Cr, Cu, Zn, Cd, Hg, Pb - their sources and adverse effects

Unit VII Environment Conservation

- i Importance of environmental conservation
- i Conservation of biodiversity
- iii Conservation of forests
- iv Conservation of wild life
- v Conservation of soil
- vi Conservation of wet-lands
- vii Role of society in the environmental conservation.

Unit VIII Energy and Environment

- i Energy and civilisation
- i Use of conventional sources of energy - coal, petrol, diesel, wood adverse effects on the environment.
- iii Use of atomic energy - advantages and disadvantages
- iv Use of non-conventional and renewable sources of energy - advantages.

Unit IX Sustainable Development

- i The concept of sustainable development
- i Sustainable industry
- iii Sustainable agriculture

Unit X Environment - Related Movements in India

- i Introduction
- i Chipko movement
- iii Save Normada Movement
- iv “Silent Valley” Movement

Unit XI International Conferences of Human Environment

- i Stockholm Conference, 1972
- i Earth Summit Conference, 1992
- iii Montreal Protocol, 1987
- iv Kyoto Protocol, 1997
- v Conference of the Parties (Cop21), Paris, 2015

Unit XII The Green Bench

- i What is Green Bench
- i Jurisdiction of Green Bench

Project :**Full Marks: 20****No. of Periods: 14**

The students will have to undertake a PROJECT. They may choose the topic of PROJECT in consultation with their teachers. As examples, a few topics are given below:-

- 01 Domestic solid and liquid disposals in a specified locality
- 02 Month wise average temperature for the last five years
- 03 Month wise average rain-fall for the last five years
- 04 Drainage system in a specified locality
- 05 Impact of road widening on plant population
- 06 Rain-water harvesting
- 07 TV viewing and exposure to extra radiation
- 08 Hazards of drinking water containing arsenic above safe limit
- 09 Importance of wet land
- 10 Occupational health hazards
- 11 e-waste and plastic disposal
- 12 Impact of urbanisation on biodiversity

**Vocational Subjects
&
Academic Elective Subjects
Class XI**

Basic Nutrition (BANU)**Class XI****Total no. of weeks for classes / Year: 36****Classes per week: 7****Th= 3****Practical/Project=4****Total classes per year: 252****Th=108****Practical/Project =144****Total marks: 100****Th= 50****Practical = 50****Course Contents:****Theory:**

Topic	Periods	Marks
1. Basic concepts on Food,Nutrition and Health. Classification of Food in the maintenance of good health.	2	1
2. Carbohydrates- definition, classification, sources , daily requirements and functions. Basic concepts (glucose, fructose. galactose), Diglycerides (lactose, maltose, sucrose), Polysaccharides (starch, dextrin and cellulose). Deficiency and excess intake of carbohydrates.	8	4
3. Proteins - definition, classification, sources, daily requirements and function. Amino acids-definition, classification and functions. Concepts of Nutritive value of proteins. Difference between animal protein and vegetable protein. Assessment of protein quality. Deficiency and excess intake of proteins.	8	4
4. Lipids - definition,classification,sources,daily requirements and functions. Fatty acids- definition, classification and functions. Cholesterol definition, characteristics and regulation of cholesterol.	6	3
5. Vitamins - definition, classification, sources, daily requirements, functions,deficiency and excess of fat soluble vitamins (A,D,E,K) and water soluble vitamins (B-Complex, C).	18	9
6. Minerals - sources,daily requirements ,deficiency, excess and physiological role of Ca, Fe, P, Iodine, Zn,Na,K, Fluorine.	16	8
7. Water - daily requirements, functions and water balance.	8	3

Topic	Periods	Marks
8. Fibers-Classification,sources and functions .	4	2
9. Digestion and absorption of carbohydrates, proteins and fats.	16	6
10. Cookery and kitchen sanitation :Methods of cooking and their effects of nutritive value of foods. Measures for the prevention and loss of nutrients. Ideal Kitchen.	8	3
11. General ideas of food groups & their nutritional significance. Food Pyramid. Nutritive values of cereals, pulses ,roots & tubers, leafy vegetables ,other vegetables, fruits, meat, fish, poultry, fats & oils and sugar & jiggery.	14	7

Marks Allotment:

Objective type: (1×10)=10 (To be answered total Ten questions out of Twelve questions)

Descriptive type: (8×5)=40; (To be answered total five questions out of Eight questions)

Practical:**Basic Nutrition Lab.**

Topic	Periods	Marks
1. Estimation of different foods stuffs-Eye estimation, Household measurement & Actualweighing method.	14	5
2. Preparation of food items by different cooking methods and from different food groups.	80	30
3. Identification of carbohydrates,proteins and fats.	50	15

Reference Books :

- 1) Khadda –o-pusti : SunitiGhoshChatterjee(Pub:Calcutta Book House)
- 2) PustiBigyan :Sahu&Sahu (ChhayaPrakashani)
- 3) PustiBigyan :KumkumPurkait (NababharatiPrakashini)
- 4) PustiBigyan : Santra(Santra Publication)

Early Childhood Care and Education (ECCE)

Class XI

Total no. of weeks for classes / Year: 36		
Classes per week: 7	Th= 3	Practical/Project= 4
Total classes per year: 252	Th=108	Practical/Project = 144
Total marks: 100	Th= 50	Practical = 50

Course Contents :

Theory:

Topic	No. of Periods	Marks
Chapter 1 Childcare and pre-school years Feeding Weaning Supplementary Feeding Toilet Training	 2 3 5 2	 6
Chapter 2 Child rearing Definition Classification Implication	 2 6 4	 4
Chapter 3 Objectives of Childhood Care and Education Definition of Education Meaning of Childhood Care and Education Specifying the objectives of Childhood care and Education	 1 2 1	 3
Chapter 4 Types of ECCE Programmes Balwadi Anganwadi ICDS Nursery school	 2 2 5 5	 8

Topic	No. of Periods	Marks
Chapter 5 Approaches to ECE Montessori Kindergarten Play way Method	4 4 8	4
Chapter 6 Content of Teaching- Academic Readiness Reading Writing Numerical Ability Promotion of various skills and approaches to begin reading Importance of number and mathematics. Analysis of pre-requisite skills for number Basic principles of measurement time, distance, weight, capacity and money	3 3 3 8 2 6 5	15
Chapter 7 Evaluation- Need for evaluation Methods of Evaluation : Formative Evaluation, Summative Evaluation Evaluation of daily work Tools for evaluation Reporting to parents	4 8 2 4 2	10

Marks Allotment:

Objective type: $(1 \times 10) = 10$ (To be answered total Ten questions out of Twelve questions)

Descriptive type: $(8 \times 5) = 40$; (To be answered total five questions out of Eight questions)

Practical:**Early Childhood Care and Education Lab.**

Topic	No. of Periods	Marks
1. Preparing charts on growth and physical development in infancy.	14	5
2. Preparing charts on growth and physical development in childhood.	14	5

Topic	No. of Periods	Marks
3. Preparing a lay out of the arrangement of a nursery (room designing and decoration).	14	5
4. Preparing picture books for infants.	14	5
5. Preparing Story books for children.	12	5
6. Making play materials suitable for infants and children.	12	5
7. Visit to an ICDS Centre.	8	2
8. Visit to a Nursery School.	8	2
9. Preparation of Materials for Prewriting Activities.	24	8
10. Preparation of teaching aids for promoting mathematical concepts.	24	8

Reference Books

1. Arya S.C. (1972) . Infant & Childcare for mother, New Delhi : Vikas
2. Gill, S. (1993). Child care programmes in India: Changing trends. In Saraswathi, S.S. &Kaur, B., New Delhi: Sage. Unit II.
3. Early Childhood education programme New Delhi : NCERT Unit I & II.
4. Adler, S. and Farrar, (1983) : A curriculum for developing communication skills in the preschool child. Illinois : Thomas Publication.
5. Pankajam G (1999): Pre-School Education- The philosophy & practices (4thed). Indian Publications.

Basic Science (Biology + Chemistry) (BSBC)**Class XI**

Total no. of weeks for classes / Year: 36		
Classes per week: 6	Th= 4	Practical/Project= 2
Total classes per year: 216	Th=144	Practical/Project = 72
Total marks: 100	Th= 70 (35+35)	Practical = 30 (15 + 15)

Course Context:**Theory:****Group A****Biology (72 Pds)**

Topic	No. of Periods	Marks
Unit I : Diversity Of Living Organism		
Chapter – 1 : Science Of Life		
1. Definition and characteristics of life.	1	
2. Biological Sciences – its application and relationship with other sciences.	1	
Chapter – 2 : Classification of Living Organisms		Unit-I 4 Marks
1. Five kingdom classification; Salient features of Monera, Protista and Fungi.	2	
2. Salient features and classification of plants into major groups- Algae, Bryophyta, Pteridophyta, Gymnospermae and Angiospermae (three to five salient and distinguishing features and at least two examples of each category);	4	
3. Salient features and classification of animals - non chordates up to phyla level and chordates up to class level (three to five salient features and at least two examples of each category).	4	
Unit II : Cell Structure and Function Of Animal Cell		
Chapter – 3 : Cell		Unit-II 6 Marks
1. Ultrastructure and function of different parts of animal cell with label diagram.	4	

Topic	No. of Periods	Marks
Chapter – 4: Mineral nutrition 1. Essential minerals, macro- and micronutrients and their role; deficiency symptoms;	6	
Chapter – 5: Respiration 1. Cellular respiration - glycolysis, fermentation, TCA cycle and electron transport system (in brief).	6	
UNIT III : Human Physiology		
Chapter – 6 :Elementary System:		
1. Structure and Functions of different parts of elementary system	2	
2. Digestion and absorption of proteins, carbohydrates and fats;	6	
Chapter – 7: Breathing and Respiration		
1. Respiratory system in humans;	2	
2. mechanism of breathing and its regulation in humans - exchange of gases,	2	Unit-III 25 Marks
3. Respiratory volumes – TV, IRV, ERV, VC, RV, Dead space air;	2	
Chapter – 8: Body fluids and circulation		
1. Composition of blood, blood groups, coagulation of blood	2	
2. Composition of lymph and its function;	2	
3. Human circulatory system - Structure of human heart and blood vessels;	2	
4. cardiac cycle, cardiac output;	1	
5. Blood pressure;	1	
6. Blood transfusion	1	
7. ECG.	1	
Chapter – 9: Excretory System :		
1 Structure and functions of Kidney	4	
2. Urine-normal and abnormal composition;	1	
3. Dialysis and artificial kidney.	1	

Topic	No. of Periods	Marks
Chapter – 10: Neural control and coordination		
1. Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system (names and functions of parts only, flow chart, with special emphasis on autonomic nervous system);	6	
2. Elementary structure and functions of eye and ear.	2	
Chapter – 11: Chemical coordination and regulation		
1. Human endocrine system - pituitary, thyroid, parathyroid, adrenal, pancreas, gonads (in tabular form) with emphasis on major disease caused by disorders of endocrine system.	6	

Group B
Chemistry (72Pds)

Topic	No. of Periods	Marks
Unit I:	10	5
A) Brief introduction to Chemistry, Organic chemistry and Inorganic chemistry.		
B) Chemical equation – its significance Mole and molar mass Equivalent weight Weight – weight, weight-volume Volume-volume calculations		
C) Empirical formula, molecular formula		
UNIT II [Structure Of Atom]	14	7
Extra Nuclear Structure		
Wave – mechanical picture of atom: Quantum numbers [n,l,m,s]		
Orbitals, sub shell, Shell [qualitative idea], Shapes of s and p orbitals [pictorial representation]		
Electronic configuration of atoms		
Nuclear structure of atom		
Modern periodic law and present form of periodic table.		
S block, p-block, d-block and f-block elements.		

Topic	No. of Periods	Marks
UNIT III [Chemical Bonding And Molecular Structure] Ionic bond, covalent bond, bond parameters [bond length, bond strength and directional character of covalent bond], polar character of covalent bond. Hydrogen bond: intermolecular and intramolecular. Effect of hydrogen bonding on melting points and boiling points of simple compounds.	10	5
Unit IV [State Of Matter] Gaseous State Of Matter Boyle's law, Charles' law, Gay Lussac's law, Avogadro's law. Ideal gas equation, universal gas constant. Deviation from ideal behaviour, van der Waals equation [only qualitative idea] Liquid State Of Matter Vapour pressure, viscosity, surface tension [qualitative idea only]	8	4
Unit V [Theormodynamics] Work, heat, energy Extensive and intensive property First law of Thermodynamics	8	4
Unit VI [Equilibrium and Acidimetry Alkali Metry] A) Equilibrium in physical and chemical processes. Reversible reaction. Dynamic nature of equilibrium Law of mass action, equilibrium constant Factors affecting equilibrium Le ChetalierPrincipile – simple of application B) Ionic product of water P^H and P^H scale Buffer solution [definition with examples of acid and basic buffer solutions]. Universal PH paper and universal indicator. Simple calculation of P^H Solubility product, common in effect [no numerical problem]	12	8

Topic	No. of Periods	Marks
C) Acidimetry and alkalimetry Normal and molar solution Neutralization reaction Indicator and choice of indicator $S_1 V_1 = S_2 V_2$		
Unit VII Water Versatile solvent Natural water: hard water and soft water Expression of hardness of water Estimation of hardness of water Removal of hardness by ion – exchange method Deionized and distilled water, water for injection	10	4

Marks Allotment:

Objective type: (1×5) + (1×5)

Descriptive type: (10×6) =60; (To be answered total six questions. Three questions from each Group)

Practical:**Biology Lab. (36 Periods)**

Topic	No. of periods
1. Study of parts of simple and compound light microscopes.	3
2. Qualitative Biochemical Analysis of - 10 A. Glucose – Benedict’s test B. Starch – Iodine test C. Protein – Biuret test & Coagulation test D. Fat – Grease spot test	
3. Human blood film preparation – Cell study.	4
4. Determination of blood pressure by sphygmomanometer and determination of pulse rate.	4
5. Identifications of prepared slides- a) Liver b) Kidney c) Pancreas d) Lungs e) Thyroid	15

Chemistry Lab. (36 Periods)

Topic	No. of periods
<p>A) Introduction To Chemical Laboratory</p> <ol style="list-style-type: none"> General acquaintance with the laboratory Entrance and exist Solid & liquid racks Concentrated acid rack Disposal of solid and liquid wastes General precautions Students should be acquainted with the strengths of rack reagents. Acquaintance with Bunsen burner with fuel source/spirit lamp/LPG burner [which ever is used in the laboratory]. Lighting the burner. Luminous and non-luminous flame controlling the flame height. Strike back – its remedy Turning off the burner when not required. Avoidance of wastage. 	1 Days 2 Periods
<p>B) Actual Experiments</p> <p>Expt 1 To prepare crystals of alum, copper sulfate and ferrous sulfate from impure samples.</p> <p>Expt 2</p> <ol style="list-style-type: none"> To determine and compare P^H VALUES OF 0.1 m and 0.01M hydrochloric acid with 0.1M and 0.01M acetic acid respectively using P^H paper or universal indicator. To compare P^H values of 0.1M HCL, 0.1M acetic acid, 0.1M Nacl and 0.1M Sodium Hydroxide Solution by PH paper or universal indicator. <p>Expt 3 To estimate total hardness of water by EDTA</p> <p>Expt 4 To prepare the following reagents</p> <ol style="list-style-type: none"> To prepare ~ SM hydrochloric acid To prepare ~ 2.5M sulfuric acid from core sulfuric acid. To prepare ~ 5M sodium hydroxide solution 	<p>2 Days 4 Periods</p> <p>2 Days 4 Periods</p> <p>1 Days 2 Periods</p> <p>4 Days 8 Periods</p>

Topic	No. of periods
4.4 To prepare ~ 0.125M potassium ferrocyanide solution 4.5 To prepare ~ 0.25M barium chloride solution. Expt 5 Qualitative analysis of an inorganic salt To identify the basic radical and the acid radical in a single salt sample by systematic analysis. The salt should be water or dilute hydrochloric acid soluble containing one basic radical and one acid radical from the following:- Basic radicals: Cu^{2+} , $\text{Fe}^{2+} / \text{Fe}^{3+}$, Al^{3+} , Zn^{2+} , Ca^{2+} , Acid Radicals: Cl^- , NO_3^- , SO_4^{2-} , CO_3^{2-}	9 Days 18 Periods

Marks Allotment:

1. One Expt from Expts 1(one 3 marks from the list).
2. One Expt from Expt 2 or Expt 3 (one 4 marks from the list).
3. Expt. 4 or 5 = 8 marks.

Dietetics – I (DTC1)**Class XI**

Total no. of weeks for classes / Year: 36		
Classes per week: 6	Th= 4	Practical/Project= 2
Total classes per year: 216	Th=144	Practical/Project = 72
Total marks: 100	Th= 70	Practical = 30

Course Contents:**Theory:**

Topic	No .of Periods	Marks
1. A balanced diet- Recommended allowances for Indians of varying age, sex and occupation.	6	3
2. Principles of meal planning.	4	2
3. Energy requirement during rest, different physical activities and different physiological conditions-growth, pregnancy and lactation.	24	12
4. Nutritional requirements of Infants, Children, Adolescents and Adults.	28	12
5. Feeding of Infants-Breast feeding Vs Artificial feeding, colostrums, weaning of food	24	12
6. Protein Energy Malnutrition (PEM)-Definition, classification, etiology, signs and symptoms, preventive measures and dietary management of Kwashiorkor & Marasmus.	24	12
7. Aging-Physiological changes& complications of aging. Calorie requirements & dietary modifications for older person.	16	8
8. Anemia-Definition, cause, classification and nutritional management.	8	4
9. Obesity-Definition, classification of gradation of obesity according to BMI. Causes and dietary management of obesity.	6	3
10. Underweight-Definition, causes and dietary management.	4	2

Marks Allotment:

Objective type: (1X20)=20 (To be answered total Twenty questions out of Twenty Two questions)

Descriptive type: (10X5) =50; (To be answered total five questions out of Eight questions)

Practical:**Dietetics – I Lab.**

Topic	No. of Periods
1. Planning and preparation of whole day menu for different age groups and physiological conditions-	
a) Infancy and childhood.	12
b) Adolescent.	12
c) Normal adult.	12
d) Pregnancy.	12
e) Lactation.	12
f) Old age.	12

Reference Books

- 1) Khadda – o-pusti : Suniti Ghosh Chatterjee (Pub: Calcutta Book House)
- 2) Pusti Bigyan : Sahu & Sahu (Chhaya Prakashani)
- 3) Pusti Bigyan : Kumkum Purkait (Nababharati Prakashini)
- 4) Pusti Bigyan : Santra (Santra Publication)

**Vocational Subjects
&
Academic Elective Subjects
Class XII**

Community Nutrition (CONU) Class XII

Total no. of weeks for classes / Year: 36		
Classes per week: 7	Th=3	Practical/Project=4
Total classes per year: 252	Th=108	Practical/Project =144
Total marks: 100	Th= 50	Practical = 40 Project = 10

Course Contents:

Theory:

Topic	No. of Periods	Marks
1. Introduction to community nutrition- Concept of community, characteristics of community, types of community.	6	2
2. Assessment of nutritional status- Aims and objectives of nutritional status assessment, methods of nutritional status assessment, nutritional anthropometry, biochemical assessment, clinical assessment, diet survey.	21	8
3. Malnutrition- Definition, types, prevalence, etiology, consequence, prevention of malnutrition. Impact of malnutrition in national development.	9	4
4. Other nutrition deficiency disorders- Protein energy malnutrition, iron deficiency anaemia, vitamin A deficiency disorder, vitamin B complex deficiency disorders	12	8
5. National Nutrition Intervention Programme to combat malnutrition- ICDS, anaemia prophylaxis programme, iodine deficiency disorder control programme, vitamin A deficiency prophylaxis programme, SNP, ANP, MDM programme- objectives, beneficiaries, programme components.	21	10
6. Agencies and organizations to combat malnutrition- International agencies-World Health organization, Food and Agricultural Organization, United Nations International Children's Emergency Fund, Co-operative for Assistance and Relief Everywhere. National agencies-Indian council of Medical Research, Indian Council of Agricultural Research, Council of Scientific and Industrial Research, Central Food Technological Research Institute, National Institute of Nutrition.	24	10

Topic	No. of Periods	Marks
7. Growth chart- uses, plotting, interpretation	9	4
8. Nutrition Education- Importance, objectives, principles, different methods of nutrition education. Importance of audio-visual aid.	6	4

Marks Allotment :

Objective type: (1 × 10)=10 (To be answered total ten questions out of Twelve)

Descriptive type: (8 × 5) =40 (To be answered total five questions out of Eight).

Practical:**Community Nutrition Lab**

Topic	No. of Periods	Marks
1. Anthropometric measurement of infant and children- Length, height, weight, head circumference, chest circumference, MUAC.	50	15
2. Clinical assessment of children- Signs of nutrition deficiency specially PEM, Vitamin A deficiency, anaemia, iodine deficiencies, ricket, vitamin B-complex deficiencies	50	15
3. Growth chart- plotting of growth charts.	44	10

Project :

Preparation of audio-visual aids for community awareness / nutrition education regarding common nutrition and health related problems.

(Eg. Prevention and treatment of diarrhoea/ Different cooking processes for minimizing nutrient losses/ Protein energy malnutrition – it's prevention and treatment/ National immunization schedules and it's importance etc.)

Hospital Management (HPMG) Class XII

Total no. of weeks for classes / Year: 36		
Classes per week: 7	Th=3	Practical/Project=4
Total classes per year: 252	Th=108	Practical/Project =144
Total marks: 100	Th= 50	Practical = 40 Project = 10

Course Contents:

Theory:

Topic	No. of Periods	Marks
1. History and evolution of health care system.	4	2
2. Health Programmes in India.	6	2
3. Types of Hospital organization and its role in primary health care.	4	2
4. Health care planning in hospital, its facilities and services.	10	4
5. Organization and management in hospitals.	8	4
6. Financial management and inventory control in hospital.	10	4
7. Behavioural sciences (Organizational behavior in hospitals).	8	4
8. Laws related to hospital and medical services.	8	4
9. Outpatient and inpatient services in the following fields- Gynecological& Obstetric units, Pediatric/ Neonatal units.	12	4
10. Concept of Communicable and non-communicable diseases and their prevention	8	4
11. Preventive measures for disease outbreak, vaccination, immunization, pollution control	10	4
12. Vital statistics	8	4
13. Management in Health Care Units- Blood bank, dispensaries, pathology lab, boundary services, security services, ambulance services, nursing services	12	8

Marks Allotment:

Objective type: $(1 \times 10)=10$ (To be answered total ten questions out of Twelve)

Descriptive type: $(8 \times 5)=40$ (To be answered total five questions out of Eight). Project: 10 marks

Practical :**Hospital Management Lab.**

Topic	No. of Periods	Marks
1. Maintenance of medical records in health care delivery system.	30	10
2. Computer application on hospital information system.	30	10
3. Procedure of maintaining hospital hygiene personal hygiene	30	10
4. kitchen hygiene		
5. Housekeeping.	24	5
6. Data collection for vital statistics.	30	5

Project:

Visit to a hospital to get an idea about Hospital Management and preparation of a project report.

Public Health and First Aid (PHFA)

Class XII

Total no. of weeks for classes / Year: 36			
Classes per week: 7	Th=3	Practical/Project=4	
Total classes per year: 252	Th=108	Practical/Project =144	
Total marks: 100	Th= 50	Practical = 40	Project = 10

Course Contents:

Theory:

Topic	No. of Periods	Marks
Definition of health according to WHO , Positive health, community health, Health data-infant, child and maternal mortality rate	8	3
Immunization: Importance of immunization, schedule of immunization for children and adults.	8	4
Anatomy: Elementary idea of the skeleton bones and joints	14	7
Major arteries, pressure points, blood cells, blood groups, coagulation process, clotting time, bleeding time, hemorrhage-types	30	12
Physical fitness and Health: significance of physical fitness, different forms of exercise and their health benefits.	16	8
Definition of first aid, objectives of first aid, First aid and emergency care during : a) Fracture ,dislocation and sprain b) Burns and scalds-types and degree of burns. c) Chemical ,corrosive, electric burn d) Bites and stings–Dog or jackal bite, snake bite, Bee or scorpion sting e) Special types of injuries –crushed, Foreign body, electrocution f) Poisoning –different types g) Wounds h) Drowning	24	12
Nursing and care of sick: a) Sick room requirements b) Qualities and duties of health care provider to the patient c) Prevention of infection and methods of disinfection d) Care of infant, pregnant women, old and invalid person	8	4

Marks Allotment :

Objective type: $(1 \times 10) = 10$ (To be answered total ten questions out of Twelve)

Descriptive type: $(8 \times 5) = 40$ (To be answered total five questions out of Eight). Project: 10 marks

Practical :**Public Health and First Aid Lab**

Topic	No. of Periods	Marks
Anthropometry: Measurement of height, weight, head circumference, chest circumference, mid arm circumference up to 3 years of age.	24	10
Physical fitness: different types of exercises	30	10
Measurement of blood pressure and pulse rate	6	5
Bandages : Types, uses, methods. Burns and scalds Electrocution Bites: snake, dog, scorpion convulsion	50	15

Project :

Project report on immunization programme.

Or

Project report on nursing care for an invalid patient/other patient.

Or

Project report on healthy life physical fitness among the students of a particular class of your school.

Food Processing and Preservation (FPAP) Class XII

Total no. of weeks for classes / Year: 36

Classes per week: 7

Th=3

Practical/Project=4

Total classes per year: 252

Th=108

Practical/Project =144

Total marks: 100

Th= 50

Practical = 40

Project = 10

Course Contents:

Theory:

Topic	No. of periods	marks
1. Introduction: Definition of food preservation, objectives of food preservation, causes of food spoilage, classification of food according to moisture content, selection of food for preservation.	20	5
2. Methods of food preservation: a) Preservation by low temperature, b) High temperature, c) Dehydration d) Irradiation e) Household process f) Fermentation	45	30
3. Preservatives: a) natural preservatives b) artificial Preservatives c) Limitations of preservatives	10	3
4. Effect of food preservation and processing on the nutritive value of food	10	2
5. Sealing and packaging of preserved food with special reference to tetra pack, bottling and labelling of preserved products.	15	6
6. Instruments and devices used in the food preservation laboratories	8	4

Marks Allotment:

Objective type: $(1 \times 10) = 10$ (To be answered total ten questions out of Twelve)

Descriptive type: $(8 \times 5) = 40$ (To be answered total five questions out of Eight). Project-10 marks.

Practical :**Food Processing and Preservation Lab**

Topic	No. of Periods	Marks
1. Preparation and preservation techniques of : a) Jam b) Jelly c) Juice d) squashes e) pickles f) Syrups	60	25
2. Fermented products : curd/cheese	20	5
3. Visit to different canning and processing Industries	30	10

Project

Project report on canning or food processing industry.

Or

Market survey of preserved products including demand and cost.

Or

Report on preparation and preservation technique including marketing from any one preparation mentioned in the practical syllabus.

Mushroom Culture (MRCL) Class XII

Total no. of weeks for classes / Year:	36	
Classes per week:	Th=3	Practical/Project=4
Total classes per year:	Th=108	Practical/Project =144
Total marks:	Th= 50	Practical = 40
		Project = 10

Course Contents:

Theory:

Topic	No. of Periods	Marks
1. Definition, history, characteristics, life cycle of mushroom	12	4
2. Identification of mushroom: varieties of mushroom-edible and non edible. Types of mushroom: edible, poisonous, medicinal, miscellaneous	30	15
3. Nutritive value and health benefits of mushroom	6	3
4. Commercial mushroom cultivation : Special emphasis on– button mushroom, straw mushroom, oyster mushroom, milky white mushroom	30	15
5. Problems and remedies in mushroom cultivation.	20	8
6. Storage and marketing of mushroom	10	5

Marks Allotment:

Objective type: (1 x 10)=10 (To be answered total ten questions out of Twelve)

Descriptive type: (8 x 5) =40 (To be answered total five questions out of Eight). Project: 10 marks

Practical :

Mushroom Culture Lab

Topic	No. of Periods	Marks
1. Identification of mushroom: a) By taste b) By touch c) By smell	30	10

Topic	No. of Periods	Marks
2. Cultivation of mushroom: a) Button mushroom b) Straw mushroom c) Western mushroom d) Milky mushroom	50	25
3. Storage and packaging of mushroom for commercial purpose	30	5

Project:

Topic	No. of Periods	Marks
Project on Farm design for commercial mushroom cultivation <p style="text-align: center;">Or</p> Market survey on different types of mushroom giving special emphasis for their demand and cost.	34	10

Interior Decoration (INDC) Class XII

Total no. of weeks for classes / Year: 36		
Classes per week: 7	Th=3	Practical/Project = 4
Total classes per year: 252	Th=108	Practical/Project =144
Total marks: 100	Th= 50	Practical = 40 Project = 10

Course Contents:

Theory:

Topic	No. of Periods	Marks
I. Housing a. Housing and family Housing Needs. b. Factors influencing selection of a house.	11	5
II. Space Design of Interiors a. Activities in the home-assessing activities, estimating space requirements for activities. b. Space allocation and planning of different rooms : living room, Dining room, Bed room, kitchen, Bathroom, Store room, Utility room, Foyer and Office rooms.	17	8
III. Interior Design a. Importance of Interior design. b. Principal factors influencing decisions related to interiors - family needs and preferences, office needs and preferences, climate, availability of furnishing materials, budget and principles of designs.	17	8
IV. Furniture a. Study of basic furniture dimension based on anthropometric measurements. b. Styles of furniture – Traditional, Contemporary, Modern. c. Basic materials used for furniture – wood and its substitutes, metals, plastics, glass. d. Finishes given to furniture materials. e. Furniture arrangements of different rooms with emphasis on space organization and circulation (inter-room and intra-room)	32	15

Topic	No. of Periods	Marks
V. Surface Treatment in Interiors : types, selection and care a. Walls – wall paper, wood paneling, paints and colours. b. Floors – hard and soft flooring materials. c. Ceiling – decorative ceiling treatment, false ceiling.	20	9
VI. Lighting and Ventilation a. Styles and positions of lighting. b. Ventilations for different rooms.	11	6

Marks Allotment:

Objective type: $(1 \times 10) = 10$ (To be answered total ten questions out of Twelve)

Descriptive type: $(8 \times 5) = 40$ (To be answered total five questions out of Eight). Project-10 marks

Practical :**Interior Decoration Lab**

Topic	No. of Periods	Marks
1. Apply principles of design in displaying of handicraft, textiles, folk art and festival decoration	45	16
2. Colour schemes of different rooms	33	8
3. Furniture arrangements of different rooms	33	8
4. Flower arrangements of different rooms [Living room, Drawing room, adolescent boys or girls room, Children's room, Office rooms and Birthday Party]	33	8

Project

1. Interior Designing for any of the following –
 - a. Office rooms in different professional institutions (lawyer, doctor, school office, IT sector, etc.).
 - b. Rooms of different apartments and houses.

Garment Design (GMDG) Class XII

Total no. of weeks for classes / Year: 36		
Classes per week: 7	Th=3	Practical/Project=4
Total classes per year: 252	Th=108	Practical/Project =144
Total marks: 100	Th= 50	Practical = 40
	Project = 10	

Course Contents:

Theory:

Topic	No. of Periods	Marks
Chapter -1 : Elements and function of Clothing- Classification. Measurement and Size Charts for Men, Women, and Children	2 8	5
Chapter- 2 : Description of Basic Garment Sewing Machinery - Parts - Needle, Take-Up Lever, Bobbin, Bobbin Case, Presser Foot, Tension Disc, Feed Dog. Sewing threads (fibre type, physical and chemical properties, appearance and tactile properties and seam performance). Sewing problems (Stitch formations, seam line puckering).	10 6 4	10
Chapter - 3 : Identification and Classification of Sewing Stitches: Lock Stitch, Chain Stitch, Over Lock and Flat Lock and seam and their application. Study about Flow of Processes for Sewing Various Styles of Garments. Various Sewing Defects, Causes and Remedies.	5 5 5	10
Chapter – 4 : Drafting and cutting Drafting and Cutting the Patterns of following Styles Basic T Shirt / Polo Shirt/ Children’s wear. Defects in pattern, causes and remedies.	10 5	10
Chapter -5 : Brief Study on Trims and Accessories: Types: Label, Zips, Nets, Laces, Hooks and Loop fastening, Lining, Interlining and Fasteners. Quality Parameters of Accessories and Trims.	10 5	5

Topic	No. of Periods	Marks
Chapter- 6 : Hand Embroidery stitches Brief study of Running Stitch – Laced Running Stitch - Back stitch –French Knot - Bullion Knot – Cross Stitch - Button Hole Stitch –Chain Stitch – Lazy Daisy Stitch –Fish Bone Stitch – Herringbone Stitch – Couching. Techniques of Crocheting and hand knitting to produce different designs.	15 5	10
Chapter-7 : Introduction to print design Block, tie and dye, Batik, Fabric painting and other creative techniques.	10	5
Chapter-8 : Alternative Methods of Joining Materials Fusing: means and requirements of fusing, process of fusing, fusing equipment, advantages of fusing Welding and adhesives. Moulding	10 3 2	5
Chapter-9 : Pressing technology Purpose of pressing, Categories of pressing, means of pressing. Pressing equipment and methods. Pleating, permanent press and durable press techniques.	6 4 4	5
Chapter- 10 : Garment Inspection Major and minor defects in garment and their remedies Inspection area and equipments.	5 5	5

Marks Allotment:

Objective type: (1 × 10) = 10 (To be answered total ten questions out of Twelve)

Descriptive type: (8 × 5) = 40 (To be answered total five questions out of Eight). Project-10 marks

Practical :**Garment Design Lab**

	Topic	No. of Periods	Marks
1.	Body Measurements (Correct ways of taking body measurements)	12	5

	Topic	No. of Periods	Marks									
2.	<p>Making of Patterns:</p> <p>Draft and Construct the Pattern of given Style / Sample as per the specification given.</p> <table> <tr> <td>MEN'S WEAR</td> <td>KIDS WEAR</td> <td>WOMEN'S WEAR</td> </tr> <tr> <td>1. Shirt</td> <td>1. Bib</td> <td>1. Ladies Top/Kurta</td> </tr> <tr> <td>2. Trouser</td> <td>2. A line Frock</td> <td>2. Nightie/Blouse</td> </tr> </table>	MEN'S WEAR	KIDS WEAR	WOMEN'S WEAR	1. Shirt	1. Bib	1. Ladies Top/Kurta	2. Trouser	2. A line Frock	2. Nightie/Blouse	30	15
MEN'S WEAR	KIDS WEAR	WOMEN'S WEAR										
1. Shirt	1. Bib	1. Ladies Top/Kurta										
2. Trouser	2. A line Frock	2. Nightie/Blouse										
3.	Construction of Adult's /Child's Bodies Block and Sleeve Block	15	5									
4.	<p>Dirt manipulation</p> <ol style="list-style-type: none"> Shifting of darts to different position Combining darts Dividing darts Converting darts to gathers Concealing darts into seam lines 	15	5									

**Biology (BIOH)
Class XII**

Total no. of weeks for classes / Year: 36		
Classes per week: 6	Th=4	Practical=2
Total classes per year: 216	Th=144	Practical =72
Total marks: 100	Th= 70	Practical = 30

Course Contents:**Theory:**

Topic	No. of Periods	Marks
Chapter-1: Evolution		4
1. Origin of life	4	
2. Darwin's contribution in concept of evolution.	4	
Chapter-2: Heredity and variation		10
1. Mendelian Inheritance, Multiple allele and inheritance of blood groups.	6	
2. Chromosome theory of inheritance, Chromosomes and genes	4	
3. Sex determination in humans	4	
4. Mendelian disorder in humans-Thalassemia, chromosomal disorder in humans,Down's syndrome.	6	
Chapter-3: Human Reproduction		12
1. Male and female reproductive systems	6	
2. Gametogenesis-spermatogenesis & oogenesis	6	
3. Menstrual cycle, fertilisation, embryo development upto blastocystformation (elementary idea), Parturition (elementary idea),lactation(elementary idea).	12	
Chapter-4: Reproductive Health		8
1. Need for reproductive health and prevention of sexually transmitted diseases(STD).	8	
2. Birth control-Need and methods,Conception and Medical Termination of Pregnancy(MTP)	8	
Chapter-5: Health and Diseases		16
1. Elementary idea of bacteria, virus and fungi	4	
2. Pathogens, parasites causing human diseases (Malaria, Filariasis, Ascariasis, Typhoid, Pneumonia, common cold, amoebiosis, ring worm)	16	
3. Basic concept of immunology-vaccines, HIV and AIDS	10	

Topic	No. of Periods	Marks
Chapter-6 :Economic Zoology		10
1. Sericulture, Apiculture, Pisciculture, Prawn culture	10	
2. Poultry and Dairy farming, animal breeding, (cow), other economic aspect of poultry and dairy farming-manure and biogas production.	10	
Chapter-7: Environmental Issues:		10
1. Air pollution and its control	5	
2. water pollution and its control	5	
3. Agrochemicals and their effects	6	
4. Solid waste management	5	
5. Greenhouse effect and global warning : Ozone depletion, Deforestation.	5	

Question Pattern

Theory

Section-I		Section - II			Total
MCQ (1 mark)	Very Short Answer Questions (1 mark)	Short Answer Questions I (2 marks)	Short Answer Questions II (3 marks)	Long Answer Questions (5 marks)	
14	4	10	27	15	70

- Question Paper will have two sections.
- Section I : for MCQ (Question nos. 1 to 14)
- Section II will have four groups :
 - Group A – VSA (1 mark)
 - Group B – SA I (2 marks)
 - Group C – SA II (3 marks)
 - Group D – LA (5 marks)
- There should be no fractions in marks distribution.
- For SA I, marks may be divided into 1+1.
- For SA II, marks may be divided into 2+1.
- For LA , marks may be divided into 3+2 or 4+1.

Practical:**Biology Lab.**

Topic	No. of Periods	Marks
1. Identification of slides of testis and ovary	6	2
2. Identification of slides of bacteria, virus and fungi	9	3
3. Chart /model on issues of environment as mentioned in the theory	20	10
4. Spot identification of silk worm, Honey bee, Tiger prawn.	9	3
5. Visit to sericulture, Apiculture, pisciculture farm	13	6
6. Visit to Primary Health Centre/Hospital to show National Immunisation Programme.	13	6

Question Pattern**Practical**

- | | | |
|---------------------------|-------|------------|
| 1. Spotting (5 specimens) | = 2×5 | = 10 marks |
| 2. Model | | = 5 marks |
| 3. Field Report | | = 10 marks |
| 4. Laboratory Note Book | | = 5 marks |

TOTAL**= 30 marks**

Dietetics II (DTC2)**Class XII**

Total no. of weeks for classes / Year: 36		
Classes per week: 6	Th=4	Practical =2
Total classes per year: 216	Th=144	Practical =72
Total marks: 100	Th= 70	Practical = 30

Course Contents:**Theory:**

Sl. No.	Topics	No. of Periods	Marks
1.	Preparation of simple therapeutic diets - Principle & objectives of therapeutic diets Classification of therapeutic diets Routine Hospital Diets Liquid Diet : Claas liquid & Full liquid diet Soft diet Special Feeding Methods : Intravenous Feeding Tube Feeding	4 4 4 8 4 1 2	15
2.	Dietetic management &menuplanning of different diseases with mentioning - definition, causes, symptoms, classification, prevention and control : Diabets Heart disease G.I.Tract diseases Gastritis Peptic ulcer Diarrhoea Constipation Jaundice Fever Tuberculosis Gout	- 8 16 - 12 12 8 8 8 8 8 5	40
3	Preparation of diet chart & menu planning	20	10
4	Importance of dietetics and role of a dietitian in the society	4	5

Question Pattern

Theory

Section-I	Section - II				Total
MCQ (1 mark)	Very Short Answer Questions (1 mark)	Short Answer Questions I (2 marks)	Short Answer Questions II (3 marks)	Long Answer Questions (5 marks)	
14	4	10	27	15	70

- Question Paper will have two sections.
- Section I : for MCQ (Question nos. 1 to 14)
- Section II will have four groups :
 - Group A – VSA (1 mark)
 - Group B – SA I (2 marks)
 - Group C – SA II (3 marks)
 - Group D – LA (5 marks)
- There should be no fractions in marks distribution.
- For SA I, marks may be divided into 1+1.
- For SA II, marks may be divided into 2+1.
- For LA , marks may be divided into 3+2 or 4+1.

Practical:

Dietetics II Lab

Sl No.	Topic	No. of Periods	Marks
1 .	Technique for determining the nutritive value	12	4
2 .	Preparation of Clear liquid, Full Fluid & Soft diet	20	6
3 .	Preparation of diet for heart disease including hypertension	10	6
4 .	Diet for gastritis, peptic ulcer, diarrhoea and constipation	20	10
5 .	Diet for fever and tuberculosis	10	4
	Total	72	30

Human Development (HUDV)

Class XII

Total no. of weeks for classes / Year: 36		
Classes per week: 6	Th=4	Practical/Project=2
Total classes per year: 216	Th=144	Practical/Project =72
Total marks: 100	Th= 70	Practical = 30

Course Contents:

Theory:

Topic	No. of Periods	Marks
Chapter -1 : Introduction to Human Development		12
Human development and the need to study it	4	
Concepts of growth and development	6	
Principles of development	6	
Types of development- physical, mental, emotional and social	6	
Chapter- 2 : Factors influencing growth and development		6
Roles of heredity and environment	6	
Role of family	4	
Role of school	4	
Chapter - 3 : Prenatal Development		6
Birth Process	4	
Condition affecting prenatal development	6	
Hazards	4	
Chapter - 4 : Stages of Development		14
Infancy- characteristics, needs, hazards.	8	
Childhood- characteristics, needs, hazards.	8	
Adolescence- characteristics, needs, problems.	8	
Adulthood- characteristics, problems.	6	
Old age- characteristics, problems.	6	
Chapter -5 : Concept of Disability		12
Definition of Disability	2	
Characteristics of disabled children	4	
Types of disabilities	6	
Causes	6	
Diagnosis and remedies	6	

Topic	No. of Periods	Marks
Chapter- 6 : Concept of Guidance and Counselling		8
Definition- Guidance and counselling	2	
Types-counselling	6	
Guidance and counselling of disabled children	6	
Chapter-7 : Behaviour problems		12
Definition-Behavioural Problems	4	
Types	4	
Causes and remedies	6	
Counselling of children with behaviour problems	6	

Question Pattern

Theory

Section-I	Section - II				
MCQ (1 mark)	Very Short Answer Questions (1 mark)	Short Answer QuestionsI (2 marks)	Short Answer QuestionsII (3 marks)	Long Answer Questions (5 marks)	Total
14	4	10	27	15	70

- Question Paper will have two sections.
- Section I : for MCQ (Question nos. 1 to 14)
- Section II will have four groups :
 - Group A – VSA (1 mark)
 - Group B – SA I (2 marks)
 - Group C – SA II (3 marks)
 - Group D – LA (5 marks)
- There should be no fractions in marks distribution.
- For SA I, marks may be divided into 1+1.
- For SA II, marks may be divided into 2+1.
- For LA , marks may be divided into 3+2 or 4+1

Practical:**Human Development Lab**

Topic	No. of Periods	Marks
1. A study of infants/ young children with respect to physical, motor, and emotional development and prepare a project report on it.	16	10
2. Preparation of educational toys for young children.	16	5
3. Visit to institutes and report writing- Creche/ day care centre/home for destitute/ old age home.	20	10
4. Visit to institution of children with special needs/ guidance and counselling centres.	20	5

Reference Books

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5. Morgan, C.T., King, R. A., Weisz, J.R. and Schopler, J. (1987). Introduction to psychology 7th Ed., New York: McGraw – Hill.Skinner, C. Educational psychology.
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