Semester	III,	IV	&	VI
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Sl. No.	Name of the Course	Page No.
1.	Floriculture and Landscaping	2-11
2.	Mushroom Cultivation	12-20
3.	Web Designing	21 – 37
4.	Event Management	38-45
5.	Vocals	46 - 54
6.	Khasi Traditional Music	55 - 63
7.	Baking and Confectionary	64 – 74
8.	Beauty Care	75 – 87
9.	Fashion Design	88 – 97

Paper Title				: Flo	ricultur	e and La	ndscaping	ς -Ι	
CODE			: VTC: 241.1						
Number of Credits		:4							
Semester				: III					
No. of Theory	Hours P	er W	eek		e (1 hou				
No. of Practic	al Hours	per V	Veek	:Th	ree (3 H	lours)			
Outline of th		1			I	I			
Type of					Total	Distribution of Marks (as per OC-			
Course	in the	S	S		Mark	<u>8)</u>			
Floricultur	VTC				S	In-Sem	1	End-Se	
e and						Theor	Practic	Theor	Practic
Landscapin g - I	Unit-I	15				y 25	al	У	al
g-1	Theor y (25 Marks	15	4		100	25			
) Unit- II to IV	90					15		60
	Theor y (75 Marks								
Marks Distrib	oution		: Inte	ernal	Assessm	ent: 40			11
					Assessm				
Course Object	tives		1. T cr 2. T ir 3. T p 4. T d m 5. T	o acqu ultivat o aco nporta o fan ropaga lants. o ider ifferen nanage o pro	aint the ion, its in quire kn ince and miliarize ation and tify the timent, bo wide inf	students mportanc nowledge cultivatio with d nursery ornamen ods of th onsai and	e and differ and und on aspects of principles y managen tal plants a he plant p flower arra a about en	rent comp derstandir of orname and pr nent for and devel propagatio ingement.	ng on the ntal plants ractices of ornamental op skills in on, nursery
Course Learn	ing Outc	ome	1	deso cult use	cribe the ivation a techni	basics of spects ques of	ourse the s f ornamenta f propaga nental plan	al horticul	lture and its

	 develop skills on flower arrangement, bonsai making identify tools and equipment used in gardening
Unit I: (Theory) 15 Hours	 Definitions, scope and importance of ornamental horticulture. Floriculture industry and its components, area and production, acquaintance with different types of ornamental plants, its classification,designvaluesandgeneralcultivationas pects<i>viz</i>.annuals,biennials, trees, shrubs, climbers, indoor plants, cacti and succulents, herb aceous perennials ,grasses and bulbous ornamentals, propagation and nursery management, growing media. Importance of flower arrangement, its different styles and type, selection of flowers and cut foliage for arrangement, study of roof garden, water garden, vertical garden, bottle garden, terrariums, dish garden, indoor garden, butterfly garden. Bonsai- concepts, techniques and maintenance
UNIT-II: (Practical) 30 Hours	 Identification and description of annuals, biennials, trees, shrubs, climbers, indoor plants, cacti and succulents, herbaceous sperennials, grasses and bulbous ornamentals. General cultivation aspects and uses of ornamental plants Study and identification of various tools and implements
UNIT-III: (Practical) 30 Hours	 Practices of various propagation techniques <i>viz.</i> cuttings, budding, grafting, layering, etc. Planning and layout of nursery Preparation of nursery beds and raising of ornamental plants Identification of growing media and preparation of media for raising ornamental plants Visit to commercial nursery units
UNIT-IV: (Practical) 30 Hours	 Identification and selection of flowers, containers for floral arrangement Practices on preparation of different types/styles of flower arrangement

	• Techniques of bonsai making and its cultural				
	practices				
	• Projectwork on any topic mentioned above				
Suggested Readings	1. Arora, J.S. 2006. Introductory Ornamental Horticulture. Kalyani Publishers, Ludhiana				
	2. Bose, Chowdhury and Sharma. 1991. Tropical Garden				
	Plants in colour. Horticulture and allied publishers, 3D Madhab Chatterjee street Kolkata.				
	 Bose, T.K. Mukherjee, D. 2004. Gardening in India. Oxford & IBH Publishers. 				
	4. Chadha, K.L. and Chaudhary, B. 1986. Ornamental Horticulture in India. Publication and Information division. ICAR, New Delhi.				
	5. Chowdhury Bimal Das and Balai Lal Jana.2014.Flowering Garden trees. Pointer publishers, Jaipur. India.				
	6. Peter.K.V. 2009.Ornamental plants. New India				
	publishing agency, Pitampura, New Delhi.				
	7. Randhawa, G.S. Amitabha Mukhopadhyay, 2004.				
	Floriculture in India. Allied Publishers Pvt. Ltd., New Delhi.				
	8. Tiwari A.K. and R. Kumar. 2012. Fundamentals of				
	ornamental horticulture and landscape gardening. New				
	India				
Requirements	1. Nursery and Greenhouse				
	2. Gardens				
	3. Propagation Unit				
	4. Floral Arrangement Workshop				
	5. Bonsai Studio				
	Tools and Equipment				
	1. Horticultural Tools				
	2. Planting Equipment				
	3. Growing Media				
	4. Floral Arrangement Supplies Additional Facilities				
	 Computer Lab Field Visit Arrangements 				
	3. Administrative Office				
	4. Safety and First Aid				
	Any other item as required				
Qualified Instructors	Instructors with experience in Floriculture and				
	Landscaping and teaching.				
	 Certifications or relevant qualifications in 				
	Floriculture and Landscaping				

Paper Title			:1	Floricultı	ire and 1	Landsca	ping -II				
CODE			: Floriculture and Landscaping -II : VTC: 261.1								
Number of Credits			:4								
Semester				: IV							
No. of Theory Hours Per			: (One (1 ho	our)						
Week	1.77										
No. of Practic Week	al Hours	per		Three (3	Hours)						
Outline of th	e Paper:										
Type of	Units	Ηοι	ır	Credit	Total	Distrib	ution of M	arks (as	per OC-		
Course	in the	s		S	Mark	Distribution of Marks (as per OC- 8)					
Floricultur	VTC				s	In-Semester		End-Semester			
e and						Theor	Practic	Theor	Practic		
Landscapin						У	al	У	al		
g - II	Unit-I	15				25					
	Theor				100						
	y (25			4	100						
	Marks										
	Unit-	90					15		60		
	II to	70					15		00		
	IV										
	Theor										
	y (75										
	Marks										
)										
Marks Distrib	oution			Internal A External							
Course Objectives		:]				vledge abou	it the imp	ortance and			
				-		nercial flow	-				
									aspects and		
				developing skills in protected cultivation of flower							
				crops							
			3. To train manpower in acquiring skills of value								
				addi	ition in f	lowers.					
Course Learn	ina		٨٠	fter comm	lation of	the cour	a studente	ara abla +	0:		
Course Learn Outcome	шg		A	-			se students		uction and		
JURVIIIC					-	-	nercial flow	-	action and		
					-			-	oost-harvest		
							nercial flow				
					-				on of crops		
					-		its manager				
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									ombinations		
						u method	is of cultiva	ation for	commercial		
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	New York Academic Press. pp. 628.
	8. Laurie A and Rees VH. 2001. Floriculture-
	Fundamentals and Practices. Agrobios
	Publications, Jodhpur. pp.534.
	9. Prasad S and Kumar U. 2003. Commercial
	Floriculture. Agrobios Publications, Jodhpur.
	10. Randhawa GS and Mukhopadhyay A. 2001.
	Floriculture in India. Allied Publ. pp 660.
	11. Reddy S, Janakiram T, Balaji Kulkarni S and Misra
	5 / 5
	RL. 2007. Hi- Tech Floriculture. Indian Society of
	Ornamental Horticulture, New Delhi, India.
	12. Singh AK. 2006. Flower Crops: Cultivation and
	Management. New India Publ. Agency, New
	Delhi, India
Requirements	Floriculture Lab
	Creanbauge and Protected Cultivation Facilities
	Greenhouse and Protected Cultivation Facilities:
	1. Greenhouses/Polyhouses
	•
	2. Climate Control Systems.
	Field Facilities:
	1. Cultivation Plots
	2. Nurseries
	Postharvest Handling and Processing Facilities:
	1. Processing Units
	2. Packaging Units
	2. Fuoluging Onto
	Supporting Facilities:
	1 Storage Deceme
	 Storage Rooms Tool Rooms
	3. Library
	5. Liorary
	IT and Digital Facilities:
	11 unu Digitui 1 ucinites.
	Computer Labs
	Internet Access
	Any other item as required
Qualified Instructors	• Instructors with experience in Floriculture and
	Landscaping and teaching.
	• Certifications or relevant qualifications in
	Floriculture and Landscaping

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al							
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60							
: External Assessment: 60 1. To teach students the basic knowledge required to							
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pment of							
tions of							
ctices of							
lesigners							
3. To build human resources as landscape designers, supervisors, gardeners and entrepreneurs in the area of							
l their							
ne							
3. evaluate the quality of wine							
 Landscape Gardening History of gardening, Styles of gardening-formal, 							
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	Turney design and (11'1 (C 1
UNIT-II: (Practical) 30 Hours	 Importance, design and establishment of garden features/components. Importance of garden adornments. Bio aesthetic planning, avenue planting, urban landscaping, landscaping for important public places. Specialized gardens- rock garden, bog garden, sunken garden, clock garden, sacred groves, etc Identification and selection of ornamental plants Study of graphic symbols and notations in landscaping designing and use of drawing equipment Layout and planning for styles of gardening Practices in preparing design for home gardens, institutional gardens, public places, etc.
UNIT-III: (Practical) 30 Hours	 Study of the garden components/features and garden adornments Practices in planning and planting of special types of garden – rock garden, sunken garden, bog garden, dish garden, terrariums, etc. Identification of different types of lawn grasses Practices in laying out a lawn
UNIT-IV: (Practical) 30 Hours	 Concept and Application of Computer aided Designing (CAD) for landscape designing Preparation of landscape designs for school and college using CAD technology Visit to parks and botanical gardens
Suggested Readings	 Arora, J.S. 2006. Kalyani publishers, Ludhiana. Introductory Ornamental Horticulture. Kalyani publishers, Ludhiana. Bose, T.K. Malti, R.G. Dhua, R.S. & Das, P. 2004. Nayaprakash, Calcutta. Floriculture and Landscaping De, L.C. 2012. Handbook of Gardening, Aavishkar Publishers, Jaipur De,L.C Nursery and landscaping.2013. Pointer publishers, Jaipur India. Grewal H.S. and Parminder Singh. 2014. Landscape designing and ornamental plants Randhawa GS & Mukhopadhyay A. 1986. Floriculture in India. Allied Publishers. Randhawa, G.S. and Amitabha Mukhopadhyay 2004. Floriculture in India. Allied Publishers Pvt. Ltd., New Delhi. Roy R.K. Fundamentals of Garden designing. 2013. New India publishing agency, Pitampura, New Delhi. Sabina GT & Peter KV. 2008. Ornamental Plants. New India Publishing Agency, New Delhi.

	 10. Srivastava.Rajesh 2014. Fundamentals of Garden designing. Agrotech press, Jaipur, New Delhi. 11. Sundaram, v. 2016. Textbook on Commercial flowers and Ornamental Gardening. Kalyani Publishers 12. Syamal, M.M. 2014. Commercial Floriculture. Jaya Publishing House, New Delhi 13. Tiwari A.K. and R. Kumar. 2012. Fundamentals of ornamental horticulture and landscape gardening. New India.
Requirements	Classroom Facilities
	• CAD Labs: Computer labs with AutoCAD, ArchiCAD, and other relevant landscape design software.
	Laboratory and Workshop Facilities:
	 Landscape Design Lab Horticulture Lab
	Outdoor Facilities:
	 Demonstration Gardens Specialized Gardens
	Practical Training Facilities:
	 Garden Components and Features Area Lawn Areas Avenue Planting and Urban Landscaping Zones
	Supporting Facilities:
	 Tool and Equipment Storage. Plant Protection and Care Facilities
	IT and Digital Facilities:
	 High-Speed Internet Access Printing and Plotting Equipment
	Field Visit Arrangements:
	 Transportation Partnerships with Local Parks and Gardens
	Any other item as required

 Landscaping and teaching. Certifications or relevant qualifications in Floricultur and Landscaping 	Qualified Instructors	• Certifications or relevant qualifications in Floriculture
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Paper Title			: Mush	: Mushroom Cultivation -I						
CODE			: VTC:	: VTC: 241.2						
Number of Credits			:4							
Semester			: III							
No. of The	ory Hoi	irs Per	: One ((1 hour)						
Week				(A 11						
No. of Prac	tical Ho	urs per	: Three	e (3 Hou	irs)					
Week Outline of th	Do Donori									
Type of		Hour	Credit	Total	Distrib	ution of M	arks (as i	$r OC_8$		
Course	in the	s	s	Mark	Distrib		ai ks (as j			
Mushroom		3	3	S	In-Sem	ester	End-Se	mester		
Cultivatio	•••			5	Theor	Practic	Theor	Practic		
n-I					y	al	y	al		
	Unit-I	15			25		v			
	Theor									
	y (25		4	100						
	Marks									
)									
	Unit-	90				15		60		
	II to									
	IV									
	Theor									
	y (75 Marks									
)									
Marks Distri	bution		: Inter	nal Asse	ssment: 4	0				
			: Exter	: External Assessment: 60						
Course Object	Course Objectives			1. To enrich the students with basic information of						
-				mushroc	· ·					
			2.	2. To enable them to identify edible and poisonous						
				mushrooms						
			3.	3. To provide exposure on various aspects of						
				mushroom cultivation through field visits.						
Course Learn	ning Aut	nmo	At the	end of the	e colirea c	tudento wi	ll he abla	to:		
Juist Leaf		JUIIC	At the end of the course students will be able to:							
			•	 identify edible and poisonous mushrooms demonstrate the aspects of production and 						
				• demonstrate the aspects of production and processing of mushrooms.						
				r coobii	0 1 1110					
Unit I: (Theo	ry)		•	Introduc	tion, his	tory and	scope of	mushroom		
15 Hours	• /			• Introduction, history and scope of mushroom cultivation; Common edible mushrooms; Other						
				economi	cally	important	and	medicinal		
				mushroc	-					
			•		-	• •	ushroom a	& variations		
				in mush	room mor	phology;				

UNIT-II: (Practical) 30 Hours	 Characters of edible and poisonous mushrooms; Mushroom classification based on occurrence, Natural habitats, Colour of spores, Morphology, Structure and texture of fruit bodies; Nutritional and health benefits of mushrooms. Identification of edible and poisonous mushrooms (specimen/chart). Study of nutritional profile of common edible mushrooms. Study of general morphology, distinguishing characteristics, spore germination and life cycle of common edible mushrooms
UNIT-III: (Practical) 30 Hours	 Determination of soil temperature, soil moisture content, soil pH etc Identification of different parts of mushroom Classification of mushroom
UNIT-IV: (Practical) 30 Hours	 Visit to mushroom production unit Visit to mushroom processing unit Visit to spawn production unit.
Suggested Readings	 Biswas, Subrata M. Datta, S. V. Ngchan. (2012) Mushrooms: A manual for Cultivation. PHI Learning Pvt Ltd. Gogoi, R. Y. Rathaiah, T.R. Borah. (2006). Mushroom cultivation technology, Scientific Publishers, Jodhpur, India. Kannaiyan S. & Ramasamy K. (1980). A hand book of edible mushrooms, Today & Tomorrows printers & publishers, New Delhi. Nita, B. (2000). Handbook of Mushrooms. Vol 1 & 2. Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi. Pandey, R.K. and Ghosh, S.K. (1996). A handbook of Mushroom Cultivation. Emkey Publication. Som, D. 2021. A Practical Manual on Mushroom Cultivation. P.K. Publisher and Distributor. Tripathi, D.P (2005). Mushroom Cultivation. Oxford & IBH Publishing Co. Pvt. Ltd, New Delhi.
Requirements	 Microscopes Charts and specimens Tools for studying nutritional profiles Growing chambers or areas for cultivating mushrooms.

	 Soil testing kits (for temperature, moisture content, pH). Equipment for measuring environmental factors (light, humidity). Specimens of mushrooms for hands-on identification
Qualified instructors	 Qualified instructors with expertise in mushroom cultivation and related fields. Support staff for maintaining equipment and facilities

Paper Title			: Mus	hroom (Cultivatio	on -II			
CODE				: VTC: 261.2					
Number of C	Number of Credits			:4					
Semester			: IV						
No. of Theory				(1 hour)					
No. of Prac	ctical Ho	ours pe	r : Thre	ee (3 Hou	ırs)				
Week	Donom								
Outline of th Type of		Hour	Credit	Total	Distrib	ution of M	arlys (as y	$\mathbf{O}(\mathbf{R})$	
Type of Course	in the	s nour	s	Mark	Distrib	ution of M	arks (as j	per UC-o)	
Mushroom	VTC	5	5	S	In-Sem	ester	End-Se	mester	
Cultivatio					Theor	Practic	Theor	Practic	
n-					у	al	у	al	
II	Unit-I	15			25				
	Theor		4	100					
	y (25								
	Marks								
) Unit-	90				15		60	
	II to	30				15		00	
	IV IV								
	Theor								
	y (75								
	Marks								
Marks Distri) hution		. Into	mal Ass	essment:	40			
					essment:				
Course Objectives			1.				e differen	t aspects of	
				cultivat	ion of co	mmon edib	le mushro	ooms	
			2.	2. To identify problems encountered during cultivation and management strategies.					
			cultivat	ion and r	nanagemen	t strategie	es.		
Course Learning Outcome			At the	end of t	1e course	students or	e able to:		
Course Learning Outcome			At the	At the end of the course students are able to: 1. create a mushroom cultivation unit.					
				 apply various procedures required for cultivation 					
				of common edible mushrooms					
			3.	detect of	liseases a	and pests eff	fectively.		
	Unit I: (Theory)			• Principles of mushroom cultivation: Structure					
15 Hours				and construction of mushroom house (small village unit and large commercial unit),					
				-		substrates;	commen	cial unit),	
			•				e media	preparation,	
			- T	-	-		-	oduction of	
						-	-	ortation of	
								ood quality	
						on of Butto			
			•	Oyster	and Strav	w Mushroor	ns: Colle	ction of raw	
				materia	ls, comp	post & con	mposting,	, spawn &	

	 spawning methods —bed method, Polythene bag method, field cultivation; Casing & case run: importance of casing mixture, quality parameters of casing soil, different types of casing mixtures and commonly used materials; cropping & crop management, picking & packing. Problems in cultivation - diseases, pests, nematodes, weed moulds and their management strategies.
UNIT-II: (Practical) 30 Hours	 Preparation of compost using paddy straw and mushroom bed preparation. Spawning using different methods, spawn running and harvesting. Preparation of casing mixture, casing and case run. Sterilization and sanitation of mushroom house, instruments and substrates.
UNIT-III: (Practical) 30 Hours	 Introduction to microbiology laboratory, Laminar air flow, Autoclave etc. Preparation of mother culture, media, inoculation, incubation and spawn production. Study of common diseases, pests, nematodes and their management strategies during mushroom cultivation.
UNIT-IV: (Practical) 30 Hours	 Cultivation of Paddy straw mushroom. Cultivation of Oyster mushroom using paddy straw. Cultivation of Button mushroom.
Suggested Readings	 Ahlawat, O.P. R.P. Tewari (2007). Cultivation technology of Paddy straw Mushroom. National Research Centre for Mushroom (ICAR), Chambaghat, Solan, India. Biswas, Subrata M. Datta, S. V. Ngchan. (2012) Mushrooms: A manual for Cultivation. PHI Learning Pvt Ltd. Gogoi,R. Y. Rathaiah, T.R. Borah. (2006). Mushroom cultivation technology, Scientific Publishers, Jodhpur, India. Gupta P. K. Elements of Biotechnology. Rastogi Publications. Som, D. 2021. A Practical Manual on Mushroom Cultivation. P.K. Publisher and Distributor.

	6. Tripathi, D.P (2005). Mushroom Cultivation. Oxford & IBH Publishing Co. Pvt. Ltd, New Delhi.
Requirements	 Mushroom Cultivation Area: Sterilization Facilities: Microbiology Laboratory: Disease Management: Any other item as required
Qualified instructors:	 Qualified instructors with expertise in mushroom cultivation and related fields. Support staff for maintaining equipment and facilities

Paper Title		:]	: Mushroom Cultivation -III						
CODE			: VTC: 361.2						
Number of Credits			:4						
Semester			:V	Ί					
No. of Theor	y Hours	Per	: (One (1 ho	our)				
Week									
No. of Practic	cal Hours	per	:]	Three (3	Hours)				
Week	Donom								
Outline of th Type of		Hou	ır	Credit	Total	Distrib	ution of M	arks (as)	ner OC-8
Course	in the	S		s	Mark	Distrib		ai ks (as j	per 00-0)
Mushroom	VTC	2		2	S	In-Sem	ester	End-Se	emester
Cultivatio						Theor	Practic	Theor	Practic
n-						у	al	y	al
III	Unit-I	15				25			
	Theor								
	y (25			4	100				
	Marks								
) Unit-	90					15		60
	II to	90					15		00
	IV IV								
	Theor								
	y (75								
	Marks								
)								
Marks Distribution				Internal A					
			: External Assessment: 601. To explain on preparation of various value-added						
Course Objec	ctives								ortunities in
				-		Cultivatio		iung opp	ortunities in
Course Learning			A				ents are abl	e to:	
Outcome									hroom and
			spawn production						
			2. prepare value added products from mushroom.						
			3. identify the economics of mushroom cultivation.						
			4. demonstrate the economics of value-added products						
				from mushroom.					
Unit I: (Theo	rv)		• Post-harvest management and processing of						
15 Hours	- , ,				shrooms:		ing, Stee		un drying,
~							0,	1 0/	ng; Storage-
						-	erm; Marke		<i></i>
						-		-	conomics of
							mushroom		
				• Application of Artificial Intelligence in mushroom					mushroom
				cult	ivation.				
UNIT-II: (Pra	actical)			• Ster	ilization	of glassw	vares, equip	oments etc	с.

30 Hours	 Blanching, Steeping, sun drying of mushrooms. Freeze drying of mushrooms. Packaging of mushrooms.
UNIT-III: (Practical) 30 Hours	 Pickling of mushrooms. Study of storage life of processed mushrooms. Economics of processed products of mushroom.
UNIT-IV: (Practical) 30 Hours	 Economics of Mushroom cultivation and spawn production. Visit to various financial funding agencies. Preparation of project proposal for mushroom cultivation and spawn production.
Suggested Readings	 Biswas, Subrata M. Datta, S. V. Ngchan. (2012) Mushrooms: A manual for Cultivation. PHI Learning Pvt Ltd. Gogoi,R. Y. Rathaiah, T.R. Borah. (2006). Mushroom cultivation technology, Scientific Publishers, Jodhpur, India. Hand Book of Mushroom Cultivation, Processing and Packaging, Eiri Staff, Engineers India Research Institute (2007) Pathak, V.N. Nagendra Yadav and Maneesha Gaur (2010). Mushroom Production and Processing Technology. Published by Agrobios (India). Rai R.D. and T. Arumuganathan (2008). Post-Harvest Technology of Mushrooms, Technical Bulletin 2008, NRCM, ICAR, Chambaghat, Solan1731213, (H.P.). Revathy, N. A. Vijayasamundeeswari, V.M. Indumathi, V. Gomathi Mushroom Cultivation (Paperback,), Shanlax Publications, ISBN: 9789390082735, Edition: 1, 2020 Som, D. 2021. A Practical Manual on Mushroom Cultivation. P.K. Publisher and Distributor. Tripathi, D.P. (2005). Mushroom Cultivation. Oxford & IBH Publishing Co. Pvt. Ltd, New Delhi.
Requirements	 Microscopes Charts and specimens Tools for studying nutritional profiles Growing chambers or areas for cultivating mushrooms. Soil testing kits (for temperature, moisture content, pH). Equipment for measuring environmental factors (light, humidity). Specimens of mushrooms for hands-on identification

	• Any other item as and when required
Qualified instructors	 Qualified Instructors with expertise in mushroom cultivation and related fields. Support staff for maintaining equipment and facilities

Paper Title		: W	: Web Designing -I						
CODE		: VTC: 243.1							
Number of	:4								
Semester				: II	[
No. of Theo	ory Hours	Per We	ek		ne (1 hour	r)			
No. of Prac	•				ree (3 H	/			
Outline of				1	`	/			
Type of Course		Hour	Credit s	Total Mark	Distribu	ution of Ma	rks (as p	er OC-8)	
Web	VTC	5	5	S	In-Sem	ester	End-Se	mester	
Designin	, 10			2	Theor	Practica	Theor	Practica	
g - I	T T •/ T	1.			y	I	У	1	
	Unit-I	15		100	25				
	Theor		4	100					
	y (25								
	Marks								
) Unit-II	90	-			15		60	
	to IV	90				15		00	
	Theor								
	y (75								
	Marks								
)								
Marks Distribution				: Inter	nal Assess	sment: 40		1	
				: Exter	nal Asses	sment: 60			
Course Ob	jectives			1. Develop skills in designing and creating					
					websites	using essent	tial tools a	and	
					technologies for web development.				
					2. Distinguish between front-end and back-				
						lopment role	es and		
					responsibilities.				
					3. Implement front-end development techniques using HTML, CSS, and				
					-	-			
				JavaScript to build interactive and					
				visually appealing web pages.					
				<u>т</u> .	4. Manage server-side processes and database interactions to ensure robust and				
						ck-end func			
					end.				
Course Learning Outcome				After the completion of the course the students are					
				able to:					
				1.				aintain web	
					server ser	vices requi	red to hos	t a website	

	 select and apply mark-up languages for processing, identifying, and presenting information in web pages use scripting languages and web services to transfer data and add interactive components to web pages create and manipulate the web Employ media objects using editing software combine multiple web technologies to create advanced web components design websites using appropriate security principles, focusing specifically on the vulnerabilities inherent in common web implementations.
Unit I: (Theory)	Introduction to Web Technology and Web
15 Hours	Designing
	 Web Technology: HTTP; System Architecture of a Web server; Client-side Scripting versus Server-side Scripting. Introduction to HTML: What is HTML- HTML Documents- Basic structure of an HTML document. CSS: What is CSS, Structure of CSS. Advantages of CSS. Javascripts: What is JavaScript? -Client- Side JavaScript -Advantages of JavaScript-Limitations of JavaScript.
UNIT-II: (Practical)	Hyper Text Markup Language (HTML5)
30 Hours	 HTML5 Basics: Structure of an HTML5 document (<!DOCTYPE html> , <html>, <head>, <title>, <body>), Semantic elements (<header>,
<nav>, <section>, <article>, <footer>, etc.) Text and Multimedia: Text formatting
(headings, paragraphs, emphasis, etc.),Adding
images (tag) and multimedia content
(<video>, <audio> tags), Using HTML entities for
special characters Links, Lists, and Tables: Creating hyperlinks
(<a> tag) and anchor links,Lists
(unordered , ordered , and definition
<dl> lists),Creating tables (, , ,
) Forms and Input Elements: Building forms
(<form> tag) with various input types (text,
password, email, etc.), Radio buttons, checkboxes,
and dropdown lists,Form validation
using HTML5 attributes (required, pattern,
min/max, etc.) </th></tr></tbody></table></title></head></html>

[]	5. Media and Embedding: Embedding
	с •
	multimedia content (videos, audio) from external
	sources, Using the <iframe> tag for embedding content from other websites</iframe>
	6. HTML5 APIs :Geolocation API for obtaining
	user location, Canvas API for drawing graphics
	and animations, Local Storage and Session
	Storage for client-side data storage
	7. Accessibility and SEO: Importance of
	semantic HTML for accessibility and SEO, Using
	ARIA attributes for enhancing accessibility,
	Optimizing HTML for search engines (meta
	tags, title tags, alt attributes)
	8. Responsive Design and Mobile
	Compatibility: Creating responsive layouts using
	HTML5 and CSS3, Meta viewport tag for mobile
	responsiveness, Mobile-friendly forms and input
	elements
	9. Advanced HTML5 Features: Web
	components and custom elements, Drag and drop
	functionality, Web storage (local Storage, session
	Storage)
00	1. Create a Web Page Structure: Design a web
	page structure using HTML5 semantic elements
	such as <header>, <nav>, <section>, <article>,</article></section></nav></header>
	<footer>, and <aside>.</aside></footer>
	2. Create a web page for a cake shop to display all
	the different types of cakes and price to
	choose from.
	3. Multimedia Embedding: Embed an audio or
	video file using the <audio> or <video> tag with</video></audio>
	appropriate attributes like controls, autoplay, and
	loop.
	4. Responsive Image Gallery: Build a responsive
	image gallery using HTML5 <figure> and</figure>
	<figcaption> elements. Ensure that the gallery</figcaption>
	adjusts smoothly on different screen sizes.
	5. Interactive Form Validation: Develop an
	HTML5 form with input fields like text, email,
	password, and a submit button. Implement
	HTML5 form validation using attributes like
	required, pattern, and min/max.
	6. Create a HTML page with controls to take data
	for a College Admission with all the
I I	
	proper validations in the form.
	proper validations in the form. 7. Geolocation API Integration: Implement the
	proper validations in the form. 7. Geolocation API Integration: Implement the HTML5 Geolocation API to display the user's
	proper validations in the form. 7. Geolocation API Integration: Implement the

	 8. Local Storage Usage: Create a web page that allows users to store data locally using HTML5 localStorage or session Storage. Develop functionality to add, edit, and delete stored items. 9. Create a HTML Page to display the number of the times the web page was visited using local storage. 10. Semantic Markup for SEO: Optimize an existing web page for search engines using semantic HTML5 tags. Use <header>, <nav>, <main>, <article>, <section>, <aside>, and <footer> tags appropriately.</footer></aside></section></article></main></nav></header>
UNIT-III: (Practical)	 Cascading Style Sheets (CSS) 1. Introduction to CSS: What is CSS?
30 Hours	Importance and benefits, CSS syntax: selectors, properties, and values, External, internal, and inline CSS 2. CSS Selectors and Specificity: Basic selectors: element selectors, class selectors, ID selectors, Combinators: descendant, child, adjacent sibling, general sibling, Pseudo classes and pseudo-elements, CSS specificity and inheritance 3. CSS Box Model: Understanding the box model: content, padding, border, margin, Box sizing: content-box vs. border-box, Margin collapsing 4. Layout and Positioning: Display property: block, inline, inline-block, flex, grid, Position property: static, relative, absolute, fixed, sticky, Floats and clearing floats, CSS Grid and Flexbox layouts 5. Typography and Fonts: Font properties: fontfamily, font-size, font-weight, font-style, lineheight, Text properties: color, text-align, text-decoration, text-transform, letter spacing, word-spacing, Google Fonts and custom font usage 6. Colors and Backgrounds :Color values: named colors, hexadecimal, RGB, RGBA, HSL, HSLA, Background properties: background-color, background-position, background-size 7. Responsive Design and Media Queries: Responsive design principles, Media queries syntax and usage, Designing responsive layouts for different screen sizes (mobile-first approach) 8. CSS Transitions and Animations: Transition properties: transition-property, transition duration, transition-timing-function, transition-delay, CSS animations: keyframes, animation properties; animation properties:

	animation-duration, animation-timing-function, animation-delay9. Flexbox and Grid Layouts: Flexbox properties: flex-direction, justify-content, align items, align-self, flex-grow, flex-shrink, CSS Grid properties: grid-template-columns, grid-template- rows, grid-gap, grid-template-areas10. CSS Frameworks and Preprocessors: Introduction to CSS frameworks (Bootstrap, Tailwind),Overview of CSS preprocessors (Sass): variables, mixins, nesting, inheritance11.AdvancedCSS Techniques:Transformations: translate, rotate, scale, skew, CSS variables (custom properties),
	CSS gradients, shadows, and filters, Cross-browser compatibility and vendor prefixes
Suggested Practical on the topics	 1. CSS Selectors and Box Model: Create a webpage with different elements styled using basic selectors, class selectors, and ID selectors. Apply different properties such as background color, padding, border, and margin to understand the box model. 2. Layout and Positioning: Design a web page layout using CSS display properties (e.g., flexbox or grid) for header, navigation, content, and footer sections. Use positioning (static, relative, absolute) to position elements within the layout. 3. Typography and Fonts: Style text on a webpage with different font families, sizes, weights, styles, colors, and text alignments. Experiment with line height, letter spacing, and text decorations. 4. Colors and Backgrounds: Create a webpage with various background colors, gradients, images, and patterns. Apply different background properties such as background-size, background-position, and background-repeat. 5. Responsive Design with Media Queries: Develop a responsive webpage that adjusts its layout and styling based on different screen sizes using media queries. Test the responsiveness on mobile devices and desktop screens. 6. CSS Transitions and Animations:

	 Add transitions to elements (e.g., hover effects) using CSS transition properties (transition-duration, transition-property, transition-timing-function). simple animations using keyframes and animation properties. 7. Flexbox and Grid Layouts: Design a webpage layout using CSS Flexbox properties (flex-direction, justify content, alignitems) for a navigation menu or card-based layout. Create a grid based layout using CSS Grid properties (grid-template-columns, grid-templaterows, grid-gap). 8. Customizing CSS Frameworks: Customize a CSS framework (e.g., Bootstrap) by modifying variables, adding custom styles, and overriding default styles to create a unique design. 9. Advanced CSS Techniques: Implement CSS transformations (translate, rotate, scale, skew) on elements to create interactive effects. Use CSS gradients, shadows, and filters to enhance visual elements. Optimize CSS code by minifying, concatenating, and compressing stylesheets. Use browser developer tools to debug and
UNIT-IV: (Practical) 30 Hours	optimize CSS for performance. Java Scripts 1. JavaScript Basics :JavaScript syntax: variables, data types, operators, expressions, statements, Functions: defining functions, function expressions, arrow functions, Control flow: if statements, switch statements, loops (for, while) 2. Arrays and Objects: Arrays: creating arrays, accessing elements, array methods (push, pop, shift, unshift, slice, splice),Objects: creating objects, object properties, methods, constructor functions, prototypes 3. DOM Manipulation: Accessing DOM elements: get Element ById, querySelector, querySelectorAll, Manipulating DOM elements: changing content, styles, attributes, adding/removing elements 4. Events and Event Handling: click, mouseover, keydown, submit, etc. Event listeners: adding event listeners, event propagation (bubbling, capturing) Handling user interactions with events

	5. Forms and Validation: Working with HTML
	forms in JavaScript, Form validation: validating input fields, displaying error messages, preventing
	default form submission
	6. Error Handling: Handling errors in JavaScript:
	try-catch blocks, Debugging JavaScript code using
	browser developer tools
Suggested Practical Assignments	1. Basic JavaScript Concepts:
	• Write JavaScript code to declare variables of
	different data types (string, number, boolean).
	• Implement arithmetic operations, comparison
	operators, and logical operators in JavaScript. 2. Functions and Control Flow:
	\circ Create a function to calculate the factorial of a
	number using recursion.
	• Write a JavaScript program to check if a number
	is prime or not using a function.
	• Write a Javascript program to print all the perfect
	numbers from 1 to n. 3. Arrays and Objects:
	• Create an array of numbers and write JavaScript
	code to find the sum, average, maximum, and
	minimum value in the array.
	• Define an object representing a person with
	properties like name, age, and country. Use object
	methods to display information about the person.4. DOM Manipulation and Events:
	• Build an HTML form with input fields for
	username and password. Use JavaScript to
	validate the form on submission and display
	appropriate messages.
	\circ Create a webpage with a button that changes the
	background color of a div element when clicked
	using event handling. 5. Project-Based Assignments:
	 Choose a project idea (e.g., interactive quiz,
	weather app, budget tracker) and implement it
	using JavaScript. Use concepts learned throughout
	the syllabus to build the project.
Suggested Deadings	1 David Elengan "JavaSariate The
Suggested Readings	1. David Flanagan, "JavaScript: The Definitive Guide" by, O'Reilly Media.
	2022. 8th Edition
	2. Elizabeth Castro and Bruce Hyslop,
	"HTML and CSS: Visual QuickStart
	Guide", Peachpit Press, 9th Edition
	3. Jennifer Niederst Robbins, "Learning
	Web Design: A Beginner's Guide to

	 HTML, CSS, JavaScript, and Web Graphics". 4. Marijn Haverbeke, "Eloquent JavaScript: A Modern Introduction to Programming".
Requirements	 Computers Software Internet Access External Storage Printers and Scanners Projector and Screens Any other item as required
Qualified Instructors	 Instructors with experience in Web Designing and teaching. Certifications or relevant qualifications in Web Designing

Paper Title			: Web Designing -II						
CODE			:VTC:	<u> </u>	, 				
Number of Credits		:4							
Semester		:IV							
No. of The	eory Hou	ırs Per	: One (1	l hour)					
Week									
No. of Pra	ctical Ho	urs per	: Three	(3 Hours	s)				
Week									
Outline of				TAL	D' / 'I	4° 6 М	1 (
Type of Course	Units in the	Hour	Credit	Total Mark	Distrib	ution of Ma	irks (as p	er UC-8)	
Web	VTC	S	S	s s	In-Sem	ostor	End-Se	mostor	
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g - II					y		y I neor	l lactica	
5 - H	Unit-I	15			y 25	1	y	1	
	Theor	10			20				
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	Marks		•	100					
)								
	Unit-II	90				15		60	
	to IV								
	Theor								
	y (75								
	Marks								
)		.						
Marks Distribution				sment: 40					
Course Objectives			: External Assessment: 601. The course is designed to impart knowledge and skill						
Course Objectives							inciples and		
			techniques of programming for the Web.						
								lents a web	
			programming knowledge using PHP and MySQL						
			-	and Laravel Framework.					
Course Lea	rning Ou	itcome	After completion of the course students are able to:						
			1. Gain a strong foundation in PHP programming						
			language, including variables, data types, operators,						
			control structures, functions, and arrays.						
		2. Learn how to handle forms, process user input,							
		validate data, and interact with databases using PHP. 3. Master the Laravel framework and its key							
								•	
			components such as routing, controllers, views, models, migrations, and middleware.						
				Understar	-	avel's M		Iodel-View-	
			Controller) architecture and how to use it to build						
				scalable and maintainable web applications.					
					·				
			s	scalable a	nd mainta		application		
			5.	scalable a Learn ł	nd maintanow to	ainable web integrate	application PHP and	ons.	

	6. Gain proficiency in defining database relationships, designing schemas, and using migrations for database management.
Unit I: (Theory) 15 Hours	 Introduction to Server side Technology (Theory) Server-side technology: Overview of server-side vs. client-side technologies, Common server side languages and frameworks, Introduction to PHP and its role in web development, Setting up a development environment (e.g., XAMPP, WAMP). Database: Overview of relational databases and Mysql, Advantages to Mysql. Frameworks: What is a web frameworks ,Introduction to Laravel framework,History and evolution of Laravel, Features and advantages of using Laravel
UNIT-II: (Practical) PHP 30 Hours	 PHP: Conditions and Branches, Loops, Functions, Working with types, User-defined Functions, Arrays, Strings and Advanced Data Manipulation in PHP, Arrays, Strings, Regular Expressions, Dates and Times, Integers and Floats. Object-Oriented Programming with PHP : Classes and Objects, Inheritance, Throwing and Catching Exceptions Advance Features of Object- Oriented Programming in PHP : Working with Class Hierarchies, Abstract Classes and Interfaces.Session and Cookies in PHP. File Handling: File open, close, read and write, File Manipulation (Rename, delete copying file), Uploading of files.
UNIT-III: (Practical) 30 Hours	 Introduction to MySQL with PHP Working with MySQL: Database Basics, MySQL Command Interpreter, Managing Databases and Tables, Inserting, Updating and Deleting Data, Querying with SQL SELECT, Join Queries, Querying Web Databases, Querying a MySQL Database using PHP, Processing User Input Writing to Web Databases, Database Inserts, Updates and Deletes, Issues in Writing Data to Database
UNIT-IV: (Practical) 30 Hours	 PHP Frameworks Introduction to Laravel: Overview of Laravel framework, Installation and setup, basic folder structure, Introduction to MVC architecture.

	 Routing and Controllers: Routing basics, Route parameters, Route naming, Creating and using controllers, Controller methods. Views and Blade Templating: Views in Laravel, Introduction to Blade templating, Blade directives and control structures, Blade layouts and partials. Database Integration: Database configuration in Laravel, Using Eloquent ORM for database operations, Defining models and relationships, Querying the database using Eloquent. Forms and Validation: Creating forms in Laravel, Form validation using Laravel's validation rules, Displaying validation errors, Custom validation rules.
Suggested PHP Practicals	 Declare variables for name, age, and email address. Print these variables with appropriate labels. Write PHP code to perform arithmetic operations (addition, subtraction, multiplication, division) on two numbers. Create a PHP script that checks if a user's age is greater than or equal to 18. If true, display "You are an adult"; otherwise, display "You are a minor". Use a loop (for or while) to print numbers from 1 to 10 on separate lines. Write a PHP program to print all the fibonacci series from 1 to n. Create an array of fruits and use a loop to print each fruit on a new line. Write a PHP function that takes two parameters (length and width) and calculates the area of a rectangle. Call the function with different values to test it Create an HTML form with input fields for name and email. Write a PHP script to process the form data and display the submitted values. Write PHP code to read the contents of a text file and display them on the screen. Implement a PHP script that sets a session variable (e.g., username) when a user logs in. Display a personalized message using the session variable on subsequent visits.
Suggested Laravel Practical	1. Routing and Controllers: a. Create a new route that points to a controller method. The controller method should return a simple message or view. b. Implement route parameters in Laravel and use them to fetch data from a database in the controller method.

	 Views and Blade Templating: a. Create a new Blade template that includes a header, footer, and a content section. Extend this template in multiple views. b. Use Blade directives (if, foreach) to conditionally display content or loop through data in a view. Database Operations: a. Create a migration to add a new table to the database schema. Run the migration to apply the changes. b. Implement CRUD operations (Create, Read, Update, Delete) for a resource (e.g., articles, users) using Laravel's Eloquent ORM. Form Handling and Validation: a. Create a form to
	 add new data to the database. Implement form validation using Laravel's validation rules. b. Display validation errors in the form and repopulate form fields with old input on validation failure. 5. File Upload and Storage: a. Build a form for users to upload files to the server. b. Implement functionality to store uploaded files in Laravel's storage system
Suggested Minor Project work (Students are to undertake one minor project for internal assessment)	1. To-Do List Application: Create a basic to-do list application where users can add, edit, delete, and mark tasks as completed. Implement user authentication so that each user has their own set of tasks.
	2. E-commerce Store: Develop a simple ecommerce store with product listings, product details, shopping cart functionality, and checkout process. Implement user authentication and roles for customers and administrators.
	3. Contact Management System: Build a contact management system where users can add, edit, delete, and search for contacts. Implement features like contact groups, import/export contacts, and contact sharing.
	4. Event Management System: Develop an event management system for organizing and managing events. Include features such as event creation, registration, ticketing, attendee management, and event analytics
	5. Task Management System: Create a task management system with task lists, task details, deadlines, priorities, and task assignments. Implement notifications and reminders for upcoming tasks.
Suggested Readings	 DuBoi Paul s, MySQL Cookbook. DuBois Paul, My SQL Cookbook

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	 Pecoraro, Christopher John Mastering Laravel: A Comprehensive Guide to Laravel's Best Practices. Stauffer, Matt Laravel: Up & Running. Welling Luke and Laura Thomson, PHP and MySQL Web Development. Welling Luke and Laura Thomson, PHP and MySQL Web Development.
Requirements	 Computers Desktop computers or laptops with adequate RAM and processing power. Required software installed (e.g., PHP development environment, MySQL, Laravel, text editors). Software: XAMPP, WAMP, or similar for local server setup (Apache,MySQL, PHP). IDEs (Integrated Development Environments) such as Php Storm, Visual Studio Code, or Sublime Text for PHP and Laravel development. Database Management MySQL or Maria DB for database management php MyAdmin or MySQL Workbench for database administration Internet Access External Storage Printers and Scanners Any other item as required
Qualified Instructors	• Instructors with experience in Web Decigning and
	 Instructors with experience in Web Designing and teaching. Certifications or relevant qualifications in Web Designing

Paper Title			: Weh De	sionino .	III			
CODE			: Web Designing -III : VTC: 363.1					
Number of Credits		: 4						
Semester			:VI					
No. of The	ory Hour	s Per	: One (1 ł	nour)				
Week								
No. of Prac	tical Hou	rs per	: Three (3	8 Hours)				
Week								
Outline of	the Pape Units	r: Hour	Credit	Total	Distuik	ution of Ma	what (as m	
Type of Course	in the	s nour	s	Total Mark	DISTLID	ution of Ma	irks (as p	er UC-8)
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	to IV	90				15		00
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Course Obj	Course Objectives			nderstand		fundament		front-end nodern web
				velopme				nodelli web
				1		a developr	nent envi	ronment for
						sing tools lil		
			3. Gain proficiency in creating reusable components,					
			managing state, and handling events in React.					
			4. Explore advanced React concepts such as hooks,					
			context API, and component lifecycle methods.5. Develop skills in building responsive and interactive					
			user interfaces using React and CSS.					
					8			
Course	Lea	rning	After completion of the course students are able to:					
Outcome			1. design and develop dynamic and interactive user					
			interfaces using React components and JSX syntax					•
				-		-		sing React's
			built-in state management and context API					
			3. utilize React Router for handling navigation and creating multi-page applications					iganon anu
			4. integrate third-party libraries, APIs, and services into					
						or enhanced		

Unit I: (Theory) 15 Hours	 5. apply responsive design principles and CSS techniques to create visually appealing and mobile-friendly interfaces. Introduction to React: Understanding the React ecosystem, Virtual DOM, and JSX, React Components and Props: Creating components, passing props, and composing UIs, State Management: Understanding state, setState, and component re-rendering. React Lifecycle Methods:Exploring component DidMount, component DidUpdate.
UNIT-II: (Practical) 30 Hours	 Concepts Covered Component creation and rendering State management with React hooks Handling user interactions and events Asynchronous data fetching with APIs Form handling, validation, and dynamic updates React Router for client-side navigation
	 Sample exercises and assignments Exercise: Build a simple To-Do list application using React components, state management, and event handling. Assignment: Create a weather forecast application using React components to display weather data fetched from an API. Exercise: Develop a user registration form with form validation using React hooks and controlled components. Assignment: Build a movie search application using React and an external API to search and display movie details.
UNIT-III: (Practical) 30 Hours	 Concepts Covered Structuring components for scalability State management for dynamic data with Redux or Context API Implementing CRUD operations for data manipulation Utilizing React Router for multi-page applications Filtering and sorting data for enhanced user experience
	 Sample exercises and assignments Exercise: Implement a simple e-commerce product listing page with React components and state management.

	 Assignment: Create a blog application where users can view, create, and delete blog posts using React Router for navigation. Exercise: Build a chat application using React components and state to display messages in real-time. Assignment: Develop a recipe finder application using React to search and display recipes fetched from an API.
UNIT-IV: (Practical)	Concepts Covered:
30 Hours	 Building multi-step forms with conditional rendering Designing responsive layouts for various devices Implementing user authentication and authorization with JWT tokens Securing routes and resources based on user roles
	Sample exercises and assignments
	 Exercise: Create a multi-step form using React Router for navigation between form sections. Assignment: Build a portfolio website using React to showcase projects and skills with responsive design. Exercise: Implement user authentication and authorization in a React application using JWT tokens. Assignment: Develop a social media dashboard application with React components to display user posts and interactions.
Suggested Readings	 Kirupa Chinnathambi, Learning React: A Hands-On Guide to Building Web Applications Using React and Redux, 2nd Edition, Addison-Wesley Professional, 2018
	2. Michele Riva, React Design Patterns and Best Practices: Build easy to scale modular applications using the most powerful components and design patterns, 2nd Edition, Packt Publishing, 2019
Requirements	Materials:
	 Computers Node.js for running JavaScript on the server (needed for npm or yarn) phpMyAdmin or MySQL Workbench for database administration Internet Access External Storage Printers and Scanners Any other item as required

Qualified Instructors	 Instructors with experience in Web Designing and teaching. Certifications or relevant qualifications in Web Designing
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Paper Title : Event Management- I									
CODE		:VTC:2							
Number of C	redits	:4							
Semester		: III							
No. of Theory	Hours Per	: One (1 hour)							
Week									
No. of Pract	ical Hours	: Three	(3 Hour	s)					
per Week	Deserver								
Outline of the Type of	Paper: Units in the	Hours	Credits	Total	Distribu	tion of Mar	ks (as ner	OC-8)	
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Event					In-Seme		End-Sen		
Management -I	Unit-I Theory	/ 15			Theory 25	Practical	Theory	Practical	
-1	(25 Marks)	15			23				
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Unit I: (Theo 15 Hours	ry)	 Leadership. Team Management & its significance in Event Planning, Event Budgeting, Event SWOT Analysis, Event 					ance, Size ities in the ding and Planning, is, Event		
UNIT-II: (Pr 30 Hours	actical)	I	ndia.			gies of even		North East	

Syllabus on Vocational Education and Training Course (VTC)

UNIT-III: (Practical) 30 Hours	 Study the impact of organizing Local Events in your area. Estimate thebudget of collage freshers or farewells party for 60 students. Planning and design a sport event 'Football Match Tournament' in your city. Study of feasibility of organizing business events in Meghalaya. Examine the role of the event manager for organising education fair in your university. Identify the key skills required for successful event management. Formation of event team for conducting Mega Events. Estimation of cost for decoration for the big convention hall in your city.
UNIT-IV: (Practical) 30 Hours	 Develop marketing and promotional strategies for the local festival of Meghalaya. Prepare budget high tea and refreshment for 100 visitors in Trade Expo. Plan sponsorship activities for conducting Annual Day function. Develop a study of sustainable event practices in Meghalaya. Study the feasibility of events in rural area of Meghalaya
Suggested Readings	 Avrich, B. (2003). Event and Entertainment Marketing. Vikas Publishing House. Bladen, C., Kennell, J., Abson, E., & Wilde, N. (2022). Event Management: An Introduction. Routledge. Sharma, A., & Arora, S. (2018). Event Management and Marketing: Theory, Practical Approaches, and Planning. Bharti Publication. Semester IV Shone, A., & Parry, B. (2004). Event Successful Management. Cengage Learning. Van Der Wagen, L. (2018). Event Management for Tourism, Cultural, Business and Sporting Events. Pearson Education.
Requirements	 Basic Materials Needed: Event classification frameworks (examples of different event types, sizes, and their characteristics). SMART goal setting templates and guidelines. Case studies or surveys on local event impacts. Budgeting templates for event planning. Event planning templates for sport events.

	 Budget templates, feasibility study frameworks, SMART goal templates, marketing strategy templates, etc. Software tools for budgeting, project management, and feasibility analysis. Any other item as and when required
Qualified Instructors	 Instructors with experience in event management and teaching. Certifications or relevant qualifications in event management

Paper Title		nt Mana	gement	-11						
CODE			: Event Management -II : VTC: 264.2							
Number of Ci	redits	:4								
Semester		: IV								
No. of Theor	y Hours Per	: One	: One (1 hour)							
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No. of Practic	al Hours per:	: Thr	ee (3 Ho	urs)						
Week										
Outline of the I Type of		Hanna	Casadita	Total	Distribu	tion of Mon		00.0		
Type of Course	VTC	Hours	Credits	lotal Marks	Distribu	tion of Mar	ks (as per	00-8)		
Event				1,141 145	In-Seme	ster	End-Semester			
Management-					Theory	Practical	Theory	Practical		
П	Unit-I Theory (25	15			25					
	Theory (25 Marks)		4	100						
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Marks Distrik	Marks)	· Into	rnal Ass	ossmant	 • /በ					
Iviarks Distric			ernal Ass							
Course Objec	tives					nts with	the con	cents and		
Course Objec	lives	1.	1. To acquaint the students with the concepts and practicalities of events in tourism							
			practicantics of events in tourism							
Course Learn	ing Outcome	At the	At the end of the course students are able to:							
	8	1.	1. apply the knowledge of event tourism to manage							
							and sports			
							anagement			
		2.	2. apply event technology skills for effective							
			communication and organizing seamless event							
		activities in a cost effective and profitable manner.								
Unit I: (Theor	•	Emergence of Event Tourism, Nature, Scope,Significance and Typologies of Event Tourism								
15 Hours		•	Planned Events in Tourism, Core Propositions of							
		•					-			
				-	, The des	unation pe	erspectiv	e on event		
		tourism,Event Portfolio Model, Economic, Social, Cult						Cultural		
		•						and Event		
						of Event To				
			1041151	ii, curee			<i>a</i> 115111.			
UNIT-II: (Pra	UNIT-II: (Practical)			udy b	usiness	potential	s and	business		
30 Hours			•		stinations					
	•					ore-confe	erence and			
		-	nference		-					
	•	-			ials of me	eetings, i	incentives,			
					ions of No					
		•		• •				destination		
						· •	•	promote		
		tourisn	n both	business	and leis	sure. Ar	nalyse the			

UNIT-III: (Practical) 30 Hours	 problems, prospects and challenges of physical meeting, online meeting and hybrid events. Survey of business events centres or venues in your local areas and identify four sources of revenue for convention. Planning and designing of cultural events and festivals. Study the significance host-guest interactions during the tourism festival at local destination. Find the role of Music Festivals or concerts and Regional Development in Meghalaya. Examined importance of festivals in other forms of special-purpose tourism in the context of fashion, food and wine, local handmade handicrafts, black pottery and promote rural economy. Prepare a report after visiting of two indigenous festivals of the Meghalaya.
UNIT-IV: (Practical) 30 Hours	 Study the about the entertainment events through the light on film, theatre, theme parks, gambling, museums, shopping prospects in Shillong and near about. Measuring the economic impact of visitors to sports tournaments and special events. The economic importance of major sports events of the Meghalaya. Develop profile of Sport Events potential of Meghalaya. Field visit to four major sport stadiums and assess the spectators/visitor's friendly facilities there.
Suggested Readings	 Getz, D. (2013). Event Tourism: Concepts, International Case Studies, and Research. Cognizant Communication Corporation. Quinn, B. (2015). Festival and Special Event Management (5th ed.). John Wiley & Sons. Randell, J. (2011). Event Tourism. Discovery Publishing Pvt. Ltd. Sharma, A., Kumar, J., Turaev, B., & Mohanty, P. (2022). Festival and Event Tourism: Building Resilience and Promoting Sustainability. CABI.
Requirements	 Event classification frameworks (examples of different event types, sizes, and their characteristics). SMART goal setting templates and guidelines. Case studies or surveys on local event impacts. Budgeting templates for event planning. Event planning templates for sport events.

	 Budget templates, feasibility study frameworks, SMART goal templates, marketing strategy templates, etc. Software tools for budgeting, project management, and feasibility analysis. Any other item as and when required
Qualified Instructors	 Instructors with experience in event management and teaching. Certifications or relevant qualifications in event management

Paper Title		: Event Management -III									
CODE	:VTC:										
Number of Ci	:4										
Semester				:VI							
No. of Theory	Hours Per	: One (1 hour)								
Week											
No. of Pract	tical Hours	: Three	e (3 Hour	·s)							
per Week			× ·	,							
Outline of the I			-		-						
Type of		Hours	Credits	Total	Distribu	tion of Mar	ks (as per	OC-8)			
Course Event	VTC			Marks	In-Seme	stor	End-Sen	nostor			
Management-					Theory	Practical	Theory Practical				
III	Unit-I	15			25	Tructicui	Theory	Tructicui			
	Theory (25										
	Marks)			100				(0)			
	Unit-II to IV Theory (75	90	4	100		15		60			
	Marks)										
Marks Distrik	í í í	: Interr	al Asses	sment:	40						
		: Exter	nal Asse	ssment:	60						
Course Objec	tives	1.	To intr	oduce	to the	students	the 1	pasics of			
Ū		entrepreneurship in the context of holding and running									
		an event-oriented business enterprise									
		1									
Course	Learning	At the end of the course students are able to:									
Outcome		1. apply good business ethics and management principles									
		and techniques of event management and to assure									
	quality for higher studies/event entrepreneurship										
	2. design innovative and experiential events, most										
	creative and professional manners that would support										
	their career as event entrepreneurs to establish event										
		start-ups									
Unit I: (Theor	ry)			-	eneurship	: An l	Emerging	g Global			
15 Hours		Business, The French 1 Sterret in Starting on French Management									
		• The Essential Steps to Starting an Event Management									
		Business, Role of incubators framework, Qualities of									
			an Eve		treprene	/	nen-owne				
			-					ubation of			
					-			leghalaya,			
				•			•	, Wedding			
			-		uors, Mu	sicians, N	reeting P	lanners in			
			the Megł	•	for an	nt mana	omont L	ucinoca in			
			-			ent manag	ement b	usiness in			
			Meghala	ya & Inc	11a.						
LINIT II. (Dua	atical)		V:~:+ 1		4			ain affin			
UNIT-II: (Pra 30 Hours	icucal)						-	eir offices			
30 110015		or establishment nearby your locations /city and develop a report on the base of evaluation.									
			uevelop a	a report	on the da	ise of eval	uatioil.				

	• Invite event's entrepreneurs as a resource person to share their experiences related with event management and evaluation based on report writing on the same.
UNIT-III: (Practical) 30 Hours	• Internship at an event business establishment and evaluation based on the assessment by the establishment authorities for two weeks.
UNIT-IV: (Practical) 30 Hours	• Design an Event Business Start-up idea and event business feasibility study, and evaluation based on a potential event business model in Meghalaya.
Suggested Readings	 Allen, J. (2017). Event Planning: The Ultimate Guide to Successful Meetings, Corporate Events, Fundraising Galas, Conferences, Conventions, Incentives, and Other Special Events. John Wiley & Sons. Hougaard, S. (2004). The Business Idea: The Early Stages of Entrepreneurship. Springer. Morrison, A. M., O'Gorman, K. D., & O'Reilly, J. (2013). Entrepreneurship in Tourism and Hospitality: A Global Perspective. Goodfellow Publishers Ltd. O'Toole, W. J., & Mikolaitis, P. G. (2016). Event Management: A Professional & Developmental Approach. Kendall Hunt Publishing. Page, S. J., & Connell, J. (2014). Tourism: A Modern Synthesis (3rd ed.). Cengage Learning.
Requirements	 Event classification frameworks (examples of different event types, sizes, and their characteristics). SMART goal setting templates and guidelines. Case studies or surveys on local event impacts. Budgeting templates for event planning. Event planning templates for sport events. Budget templates, feasibility study frameworks, SMART goal templates, marketing strategy templates, etc. Software tools for budgeting, project management, and feasibility analysis. Any other item as and when required
Qualified Instructors	 Instructors with experience in event management and teaching. Certifications or relevant qualifications in event management

Paper Tit	ile		: Vocals -I						
CODE			: VTC: 245.4						
Number of	of Credits		:4	13.1					
Semester : III									
No. of Th		rs Per	: One (1 h	nour)					
Week			• • • • • • •						
No. of P	ractical	Hours : Three (3 Hours)							
per Week									
Outline	of the Paj	per:							
Туре	Units	Hour	Credit	Total	Distrib	ution of Ma	rks (as po	er OC-8)	
of	in the	S	S	Mark					
Cours	VTC			S					
e									
Vocals					In-Sem		End-Se		
-I					Theor	Practica	Theor	Practica	
	TI	15			y 25	1	У	1	
	Unit-I	15			25				
	Theory (25		4	100					
	(25 Marks		4	100					
)								
	Unit-II	90				15		60	
	to IV	20				10		00	
	Theory								
	(75								
	Marks								
)								
Marks Di	istributio	n	: Internal						
			: Externa						
Course O	bjectives		1. Students will have an understanding of vocal music, timbre and tonality.						
			tin	nbre and t	conality.				
Course	τ		A + +le = are -1	1 of the	1	anta x.:11 1	abla ta co		
Course		rning							
Outcome			and fine tune the voice culture with a comprehensive understanding of vocal music, technical aspects like timbre and						
				-		fferent expre	-		
			tonunty al	ia expion	ing the un			VII310113.	
Unit I: (T	Theory)		Introduct	tion					
15 Hours					Music. S	Sound. Note	s, Scale	Pitch, Key-	
								nical Names	
					-	& Natural S		_	
						¹ their Octav			
								of 1 st , 3rd.	
			 Mental effects and Technical Names of 1st, 3rd, 5thDegrees 						
			• Times: Accent, Pulse, Measurement, Braces, Double						
						e, Continued		-	

Syllabus on Vocational Education and Training Course (VTC)

	• Times: 2-PulseMeasurement, 4-PulseMeasurement and
	 Forms with Time Names Pulse Division: ½PulseDivision, ½PulseContinuation & ½ to ½ Pulse Continuation with Time Names Tunes: 2nd&7thwith Mental Effects and Technical Names Slurs, Silent Pulse & Corona
UNIT-II: (Practical)	Sight Singing
30 Hours	 Tune: 1st, 3rd, 5thwith their Octaves Time: Measurement 2-Pulse, 4-Pulseand Forms with
	Time Names
	• Pulse Division: ½PulseDivision, ½PulseContinuation&½to½Pulse Continuation with
	 Time Names Tunes: 2nd&7thin2-Pulse&4-Pulse Measure with ¹/₂
	Pulse Division
	 Slurs, Silent Pulse & Corona Time & Rhythm–Keeping Time–Tapping
	 Vocalising– LINES
UNIT-III: (Practical)	Aural Test
30 Hours	• Tune: 1st,3rd,5th
	 Time: Measurement2-Pulse–Primary Form Time: Measurement4-Pulse–Primary Form
	• Tunes: 2nd&7 th in 2- Pulse Measurement
UNIT-IV: (Practical)	Voice Lesson
30 Hours	Posture, Position of the Mouth Description of the Mouth
	Breathing and Chest Exercises
	Vocalisation
	VocalisationSinging (Art of Producing Good Tone)
Suggested Readings	• Singing (Art of Producing Good Tone)
Suggested Readings	 Singing (Art of Producing Good Tone) Pieces – Hymns & Choruses etc
Suggested Readings	 Singing (Art of Producing Good Tone) Pieces – Hymns & Choruses etc 1. Cicely Berry, Your Voice and How to Use it
Suggested Readings	 Singing (Art of Producing Good Tone) Pieces – Hymns & Choruses etc 1. Cicely Berry, Your Voice and How to Use it 2. Elizabeth Sabine, Strengthening Your Singing Voice
Suggested Readings	 Singing (Art of Producing Good Tone) Pieces – Hymns & Choruses etc 1. Cicely Berry, Your Voice and How to Use it 2. Elizabeth Sabine, Strengthening Your Singing Voice 3. Full voice The Art and Practice of Vocal Presence
Suggested Readings	 Singing (Art of Producing Good Tone) Pieces – Hymns & Choruses etc 1. Cicely Berry, Your Voice and How to Use it 2. Elizabeth Sabine, Strengthening Your Singing Voice 3. Full voice The Art and Practice of Vocal Presence 4. Jan Schmidt, Basics of Singing
Suggested Readings	 Singing (Art of Producing Good Tone) Pieces – Hymns & Choruses etc 1. Cicely Berry, Your Voice and How to Use it 2. Elizabeth Sabine, Strengthening Your Singing Voice 3. Full voice The Art and Practice of Vocal Presence 4. Jan Schmidt, Basics of Singing 5. Klaus Heizmann, Vocal Warm-Ups: 200 Exercises for
Suggested Readings	 Singing (Art of Producing Good Tone) Pieces – Hymns & Choruses etc 1. Cicely Berry, Your Voice and How to Use it 2. Elizabeth Sabine, Strengthening Your Singing Voice 3. Full voice The Art and Practice of Vocal Presence 4. Jan Schmidt, Basics of Singing 5. Klaus Heizmann, Vocal Warm-Ups: 200 Exercises for Chorus and Solo Singers
Suggested Readings	 Singing (Art of Producing Good Tone) Pieces – Hymns & Choruses etc 1. Cicely Berry, Your Voice and How to Use it 2. Elizabeth Sabine, Strengthening Your Singing Voice 3. Full voice The Art and Practice of Vocal Presence 4. Jan Schmidt, Basics of Singing 5. Klaus Heizmann, Vocal Warm-Ups: 200 Exercises for Chorus and Solo Singers 6. Samuel W. Cole, Melodia; a comprehensive course in

	Techniques to Help You Enjoy Singing More and More See less
Requirements	 Classrooms Practice Rooms Performance Hall Musical Instruments and Equipment Sound Equipment Technology and Software Computers and Software Multimedia Resources Rehearsal Spaces Any other item as and when required
Qualified instructors	 Experienced vocal coaches and music theory teachers. Guest lecturers and visiting artists for workshops and masterclasses

Paper Title					: Vocals -II					
CODE				:VT	: VTC: 265.4					
Number of Credits				:4						
Semester				: IV						
	Theory 1	Hours 1	Per	: On	e (1 hour)				
Week	Practical	Hours	nor	• Th	roo (3 Ho	ure)				
Week	Tattical	liouis	per	• • •	100 (3 110	uisj				
	of the Pa	per:								
Туре	Units	Hour	Cr	edit	Total	Distribu	ition of Ma	rks (as pe	er OC-8)	
of	in the	S	S		Mark					
Cours	VTC				S					
e V						IC				
Vocals - II						In-Seme	ester Practica	End-Sei Theor	Practica	
- 11						Theor v	l Practica		l Practica	
	Unit-I	15				y 25	1	У		
	Theory	10	4		100	-0				
	(25									
	Marks									
)									
	Unit-II	90					15		60	
	to IV									
	Theory									
	(75									
	Marks									
Marks D	istribution	n in the second		: Int	ernal Ass	sessment:	40			
						sessment				
Course C	Objectives			1. To familiarize the students with aural training and						
		<u> </u>		sight singing exercises.						
Course L	learning (Jutcome		A + +1-	a and af	the course	a atridanta a	no oblo to	deviation the	
				At the end of the course students are able to develop the ability to sight-sing and reproduce tunes accurately						
				ability to sight-sing and reproduce tunes accurately, focusing on intervals of the 4th and 6th degrees, within the						
				context of various time signatures and pulse divisions.						
				content of various time signatures and pulse divisions.						
	Unit I: (Theory)				Introduction					
15 Hours	15 Hours				• Definition: Duration, Tempo, Timbre, Interval,					
				Rhythm, Hold/Pause/Corona						
				•			Scale, Mei	ntal Effect	ts, Technical	
						s, Chart				
				•		$4^{\text{th}}, 6^{\text{th}} \text{Deg}$	-	_		
							-	-	uarter Pulse,	
					Silent Pulse, Silent ¹ / ₂ Pulse with Time-Names					
				• Interval: Major, Minor, Augmented, Diminished,						
				Formula, Inverted Chart						
				 Triads: Primary Triad sofa Major Scale, Triad Technical Names 						
					Techni	cal Name	S			

	• Dynamics: D.C., D.S., &Fine
UNIT-II: (Practical) 30 Hours	 Sight Singing Tune: 4th, 6th with Degree Time: Measurement2-Pulse, 3-Pulse & 4-Pulse (Primary & Secondary Forms) Pulse Division: Quarter Pulse, 3- Quarter Pulse, Silent Pulse, Silent ¹/₂ Pulse with Time Names. Tunes: All Notes (Natural)–Remembering C–Major. Time & Rhythm–Keeping Time–(Rate of Movement)–Tapping [Remembering–M60]. Dynamics: D.C, D.S. & Fine, Tempo, Moderato.
UNIT-III: (Practical) 30 Hours	Aural Test• Tune: All Natural Notes• Time: Measurement3- Pulse–Primary Form• Time: Measurement4- Pulse–Primary Form• Tunes: 4th& 6th in 3 and 4 Pulse Measurement• Tunes: All Notes in 3 & 4 Measurement
UNIT-IV: (Practical) 30 Hours	 Voice Lesson Breathing Support and Chest Exercises Resonation Art of Singing Vocalisation Pieces-Hymns & Choruses etc.
Suggested Readings	 Cicely Berry, Your Voice and How to Use it Elizabeth Sabine, Strengthening Your Singing Voice Full voice The Art and Practice of Vocal Presence Jan Schmidt , Basics of Singing Klaus Heizmann, Vocal Warm-Ups: 200 Exercises for Chorus and Solo Singers Samuel W. Cole, Melodia; a comprehensive course in sight-singing (solfeggio); the educational plan Stephen Greenlane, Find Your Own Singing Voice: Vocal Training from Fundamentals to Mastery Techniques to Help You Enjoy Singing More and More See less
Requirements	 Musical Instruments and Equipment Sound Equipment Technology and Software Computers and Software Multimedia Resources

	Rehearsal SpacesAny other item as and when required
Qualified instructors	 Experienced vocal coaches and music theory teachers. Guest lecturers and visiting artists for workshops and masterclasses

Paper Tit	tle		: Vocals -I	Π							
CODE			: VTC: 365.4								
	of Credits		:4								
Semester			··· ·VI								
No. of Theory Hours			: One (1 h	our)							
	Per Week										
	ractical H	lours	: Three (3	Hours)							
per Week											
-	of the Pap		~		[• •				
Туре	Units	Hou									
of Cours	in the VTC	S	S	Mark							
e	VIC			S							
Vocals	-				In-Sem	ester	End-Se	mester			
- III					Theor	Practica	Theor	Practica			
					y	1	y	1			
	Unit-I	15			25		, i i i i i i i i i i i i i i i i i i i				
	Theory										
	(25		4	100							
	Marks										
) U:4 II	00				15					
	Unit-II to IV	90				15		60			
	Theory										
	(75										
	Marks										
)										
Marks D	istributio	1	: Internal Assessment: 40								
			: External Assessment: 60								
Course C	Objectives						•	usic notation			
					•	0 0	-	lucing tunes,			
								interpreting h identifying			
			dynamics. To enhance listening skills through identifying tunes, measuring time signatures, and recognizing notes.								
			tunes, measuring time signatures, and recognizing notes.								
Course	Lear	ning	At the end of the course students are able to identify and								
	Outcome			understanding musical elements such as duration, tempo, and							
			dynamics. Students will be able to read and sing music notation								
			accurately, including recognizing tunes, pulse divisions, and								
			dynamics markings								
Unit I. (Theory)											
Unit I: (Theory) 15 Hours			Introduction								
15 110013			• Sca	les: Diato	nic Scale	. Chromatic	Scale. Sta	andard Scale			
			• Intervals: Major, Minor, Perfect, Augmented & Diminished								
			 Construction of Major Scale: Tetra Chord System 								
			Construction of Triads & Chords, Chords Inversion								
			Modulator 3 Scales, Circle of Fifth								

	 Transition Dynamics Construction of Minor Scales Construction of Triads & Chords of Minor Scale Technical Names of Minor Scale
UNIT-II: (Practical) 30 Hours	 Sight Singing A Half & Two Quarters, Two Quarters & a Half, All Natural Notes Tone (fe) & (ta) with other Notes Measurement6-Pulsewith 'fe' and 'ta' Thirds of a Pulse Memorising 3 Scales (F,C,G) Transition: 1-#Remove&1-bRemove Process of learning a new Song, Remembering C Major Learn the New Key Tone of 'F' & 'G' based on Key-C
UNIT-III: (Practical) 30 Hours	 Aural Test Tune: All Natural Notes. Tune: Chromatic Notes of 'fe' & 'ta' Tune of Minor Scale: 11, d, m Time: Measurement 2, 3, &4 Pulse Measurement; Primary & Secondary Forms Process of Understanding the Up & Down of Beat.3&4 Pulse Measurement
UNIT-IV: (Practical) 30 Hours	 Melody Writing With Text Melody Structure: Khasi Traditional, Modern Phrasing Setting Words to Music Beautifying the Melody: Use of Slurs
Suggested Readings	 Cicely Berry, Your Voice and How to Use it Elizabeth Sabine, Strengthening Your Singing Voice Find Your Own Singing Voice: Vocal Training from Fundamentals to Mastery Techniques to Help Stephen Greenlane, You Enjoy Singing More and More See less Full voice The Art and Practice of Vocal Presence Jan Schmidt, Basics of Singing Klaus Heizmann, Vocal Warm-Ups: 200 Exercises for Chorus and Solo Singers Samuel W. Cole, Melodia; a comprehensive course in sight-singing (solfeggio); the educational plan
Requirements	Musical Instruments and EquipmentSound Equipment

	 Technology and Software Computers and Software Multimedia Resources Rehearsal Spaces Any other item as and when required
Qualified instructors	 Experienced vocal coaches and music theory teachers. Guest lecturers and visiting artists for workshops and masterclasses

Syllabus on Vocational Education and Training Course (VTC);

Paper Title				• Khas	i Traditio	nal Music	_T		
CODE					: Khasi Traditional Music -I : VTC: 245.5				
Number of C	redits			:4					
Semester				: IV					
	No. of Theory Hours Per Week				(1 hour)				
No. of Practi	v				e (3 Hour)	rs)			
Outline of t		A	cen		<u>e (e 110a</u>				
Type of	Units	Hour	Cred	it Total	Distrib	ution of Ma	arks (as r	per OC-8)	
Course	in the	s	s	Mark	2150116				
Khasi	VTC	~	~	S	In-Sem	ester	End-Se	mester	
Tradition					Theor	Practica	Theor	Practica	
al Music- I					y	1	y	1	
	Unit-I	15			25				
	Theor								
	y (25		4	100					
	Marks								
)								
	Unit-	90				15		60	
	II to								
	IV								
	Theor								
	y (75								
	Marks								
						4.40			
Marks Distri	ibution			: Internal					
Course Ohie	ativos			: Externa 1. Th			as the stu	dents to the	
Course Obje	cuves					tanding of I			
						-			
				2. It will train them to develop professional skills in handling Khasi membrane musical					
				instruments and learn the rhythmic patterns					
				of different Skits.					
Course Lear	ning Out	come		After the completion of the course the students are					
	0 - 20	-		able to play and become proficient in handling Khasi					
				membrane	•	-		C	
Unit I: (Theo		Understa	nding K	Chasi Mus	ic& Kh	asi Polity			
15 Hours		(Theory)	2			ž			
				• Su	r Shnong	(Music at th	ne Village	Level)	
					-	•	-	ma" (Khasi	
					tive State			`	
				• Concept of Khasi Rhythmic Pattern (Oral					
				Tra	adition an	d Notation)			

UNIT-II: (Practical) 30 Hours	Learning of The Khasi Membrane Musical Instruments (Practical)
	 Recitation of Drum Syllables Playing Techniques Ki Skit: Learning of Ka Lumpaid and Shadwait Tem Beit
UNIT-III: (Practical) 30 Hours	 Learning of the Rhythmic Patterns (Practical) Ki Skit on Ka KsingShynrang: Ka Shadwait Kynting Dieng and Ka Mastieh Ksing Kynthei: Rhythm of Ka Padiah Ardieng
UNIT-IV: (Practical) 30 Hours	 Further Training and Learning of other Membrane Musical Instruments (Practical) Ka Bom: The Rhythmic Patterns of Ka Lumpaid, Shadwait and Ka Mastieh Ka Padiah: Playing of Ka Padiah Ardieng
Suggested Readings	 Alfred Einstein: A Short History of Music, Illustrated, Edition, London, 1986. All India Radio, Shillong (Archival Collection). Arun Kumar Sen: Indian Concept of Rhythm (Director Bhatkhande Institute of Music and Musicology), Kanishka Publisher & Distributor New Delhi, 1994. Barthakur D.R: The Music and Musical Instruments of North East India, Mittal Publications, New Delhi. David Roy: Principles of Khasi Customs, Shillong, 1934. Deva B.C.: Musical Instruments, National Book Trust, Reprint, 1979. Fr. G Costa: Ka Riti jong ka Ri LaiphewSyiem Vol 1(1036) and Vol II (1938), Don Bosco Press,Shillong. Hamlet Bareh : The History and Culture of the Khasi People, Shillong, 1964. Helen Giri (Ed) : U Myllung ha ki Sur – Thup II (in press) Helen Giri (Ed): Lest We Forget, Published Seven Huts Enterprise, Shillong 1994. Helen Giri(Ed) : U Myllung ha ki Sur – Thup II (Reprint 2016), La Riti Publications. Helen Giri(Ed) : U Myllung ha ki Sur – Thup II (Reprint 2016), La Riti Publications.

	14. Kyndiah P R (1969): A peep into Khasi and
	Jaintia Music, Khasi Heritage, Shillong.
	15. La Riti Publications.
	16. LapynshaiSyiem: The Evolution of Khasi Musici A Study of the Classical Contact Lo
	Music: A Study of the Classical Content, La Biti Bublications 2005
	Riti Publications.2005
	17. La-Riti Archival Documentation.
	18. Mawrie H O : Ka Pyrkhat u Khasi,
	Shillong, 1973.
	19. Mawrie H O : U Khasi ha la ka Niamra, Ri
	Khasi Press Shillong, 1973.
	20. P R T Gurdon: The Khasis, Cosmo
	Publications, Delhi, 1975.
	21. Rash Mohan Roy: <i>U Khasi Hyndai</i> , Shillong, 1958.
	22. Seng Khasi: Khasi Heritage, Ri Khasi Press,
	Shillong,1969.
	23. Webstar Davies Jyrwa: Phra Tylli ki Essay.
Requirements	1. Music Rooms:
	2. Instruments:
	3. Drums (KsingShynrang and KsingKynthei)
	4. Bom
	5. Padiah
	6. String Instruments (Duitara):
	7. Craft Workshop:
	8. Recording Studio:
	9. Performance Hall:
	10. IT and Digital Resources:
	11. Cultural Resource Center:
	Any other item as required
Qualified Instructors	Instructors with experience in Khasi
	1
	Traditional Music
	• Certifications or relevant qualifications in
	Khasi Traditional Music

Paper Title			: Khasi 7	Fradition	al Music	-11				
CODE	: VTC: 265.5									
Number of C	Credits		:4							
Semester			: IV							
No. of Theory Hours Per			: One (1	hour)						
Week										
No. of Pract	ical Hou	rs per	: Three (3 Hours)					
Week										
Outline of t		1			D ! / 1					
Type of		Hour	Credit	Total	Distrib	ution of Ma	arks (as p	per OC-8)		
Course Khasi	in the VTC	S	S	Mark	In-Sem	oston	End-Se	mastar		
Tradition	VIC			S	Theor	Practica	Theor	Practica		
al Music-						1 ractica		l		
II	Unit-I	15			y 25	1	У	1		
	Theor	15			23					
	y (25									
	Marks		4	100						
)									
	Unit-	90				15		60		
	II to									
	IV									
	Theor									
	y (75									
	Marks									
			T (
Marks Distri	ibution		: Interna							
Course Obje	ativos				ment: 60		udonta t	o the basic		
Course Obje						nasi Music i				
					•			earning and		
					vocal mu			annig ana		
				e			o learn tł	ne notations		
			and Khasi Music written in Tonic Solfa Notation.							
Course Lear	Course Learning Outcome			After completion of the course students are able to make use						
			of skills in Khasi vocal music with proper vocal exercises.							
T T • / T			<u> </u>	1 71 • ~	/1993.5					
Unit I: (Theory)			Study of Khasi Songs (Theory)							
15 Hours			Types of Khasi SongsProminent Khasi Composers							
			• P	rominent	Knasi Co	omposers				
UNIT II. (D-	actical)		Noto Da	adina	nd Writ	ing in To	nic Salf	a Notation		
UNIT-II: (Practical) 30 Hours			(Practica		inu wrfil	ung 111 10	nie Sull	a Notation		
CV HUHIS			• Tune and Time							
			Tune and TimeNatural Scale and Arpeggio Scale							
			 Natural Scale and Arpeggio Scale Exercises on the 1st, 3rd and 5th Degree of the Major 							
			Scale							
				cuic						

UNIT-III: (Practical) 30 Hours	 Combined Time and Tune in Music (Practical) Exercises on the 2nd and 7th degree of the Major Scale Learning of the Time and Tune in 2, 3 and 4 Pulse Measurement
UNIT-IV: (Practical) 30 Hours	 Singing Technique (Practical) Posture, Breathing Exercises and Voice Training Learning of Khasi Folk Songs and Khasi Composed Songs composed by the Prominent Composers to be identified by the Teachers
Suggested Readings	 Birendranath Dutta (Rd.): Traditional Performing Arts of North East India, Assam Academy for Cultural Relation, Guwahati, 1990. Wanswett E B R: Khasi folk Songs of North East India, Jalani Publishers Pvt.Ltd, Shillong, 1995 – 1st Edition. Kharsahnoh E W: Ki Sur Bathiang (Na Thwei ka Dohnud): Sweet Melodies from the Heart. La Riti Publication. Kharsahnoh E W: Ka Intermediate Tonic Solfa Bynta I, Published by Board of Synod Institute of Music, Shillong, 2016. Kharsahnoh E W: Ka Intermediate Tonic Solfa Bynta II, Published by Board of Synod Institute of Music, Shillong, 2009. Kharsahnoh E W: Voice Lesson I &; II, Published by Board of Synod Institute of Music, Shillong, 2009. Sainkur S. Syiemlieh : Elementary Tonic Solfa 1&;2, Published by Board of Synod Institute of Music, Shillong, 2006. Sainkur S. Syiemlieh: Lamphang Thaw Jingrwai, Published by Board of Synod Institute of Music, Shillong, 1999. Sainkur S. Syiemlieh: Ki Tynrai Thaw Jingrwai Saw Sur, Staff Music Notation Vol.I, Bynta 1&2, Published by Board of Synod Institute of Music, Shillong, 1998. Sainkur S. Syiemlieh: Ki TynraiJingrwai (Fundamentals of Music), Staff Notation Edition Vol.I, Bynta 1&2, Published by Board of Synod Institute of Music, Shillong, 1998. Sainkur S. Syiemlieh: Ki TynraiJingrwai (Fundamentals of Music), Staff Notation Edition Vol.II, Bynta 1&2, Published by Board of Synod Institute of Music, Shillong, 1998.

	12. David M Lartang: Junior Tonic Solfa Part I,					
	Publications HepmelyneWanniang, West Khasi Hills					
	District, Meghalaya, 2010. 13. David M Lartang: <i>Elementary Tonic Solfa</i> Part II,					
	Publications HepmelyneWanniang, West Khasi Hills					
	District, Meghalaya, 2012.					
	14. David M Lartang: Intermediate Tonic Solfa Part III,					
	Publications HepmelyneWanniang, West Khasi Hills					
	District, Meghalaya, 2022.					
	15. Helen Giri (Ed): U Myllung ha ki Sur – Thup II					
	(Reprint 2016), La Riti Publications.					
	16. Helen Giri(Ed) : <i>U Myllung ha ki Sur</i> -Thup II (in press), La Riti Publications.					
	17. Kharsyntiew M S: <i>Phawar</i> .					
	18. KJWA Publication Cell: <i>Khasi Phawar</i> .					
	19. All India Radio, Shillong (Archival Collection).					
	20. La-Riti Archival Documentation.					
Requirements	1. Music Rooms					
	2. Instruments					
	3. Drums (KsingShynrang and KsingKynthei)					
	4. Bom					
	5. Padiah 6. String Instrumenta (Duitere)					
	 6. String Instruments (Duitara) 7. Craft Workshop 					
	8. Recording Studio					
	9. Performance Hall					
	10. IT and Digital Resources					
	Any other item as required					
	~ ^					
Qualified Instructors	• Instructors with experience in Khasi Traditional					
	MusicCertifications or relevant qualifications in					
	Khasi Traditional Music					

Paper Title			: Khasi Traditional Music-III							
CODE			:VTC: 365.5							
Number of C	Number of Credits			:4						
Semester			:VI							
No. of Theo	ry Hours	s Per	: One (1 h	our)						
Week										
No. of Practi	cal Hour	s per	: Three (3	Hours)						
Week										
Outline of t		: Hou	r Credit	Tatal	Distrik	tion of M		OC(0)		
Type of Course	Units in the	Hou s	r Crean	Total Mark	Distrib	ution of Ma	arks (as f	ber UC-8)		
Khasi	VTC	3	3	S	In-Sem	ester	End-Se	mester		
Tradition	•••			3	Theor	Practica	Theor	Practica		
al Music-					v]	y	l		
III	Unit-I	15			25	-	5			
	Theor									
	y (25									
	Marks		4	100						
)									
	Unit-	90				15		60		
	II to									
	IV									
	Theor									
	y (75									
	Marks									
Marks Distr) ibution		: Internal	Assessm	ent: 40					
Marks Distri	ibution		: External							
Course Obje	ctives					troduce st	udents to	the basic		
			understanding of the classification of Khasi Musical							
				truments						
			2. It v	will help	and impr	ove them in	n learning	g and in the		
			training of String Instruments.							
			3. This course is also designed to enable students to							
			develop skills in crafting of Khasi Musical							
			Instruments.							
Course	I DOL	ning	After completion of the course students are ship to display							
Outcome	Ltai	mig	After completion of the course students are able to display skills in using traditional instruments and also in crafting							
			them.							
Unit I: (The	Unit I: (Theory)			tion of K	hasi Mu	sical Instru	ments (T	heory)		
15 Hours	15 Hours							Traditional		
				usical		ments:		ranophones/		
				Chordophones/ Idiophones/ Bamboo Instruments						
	UNIT-II: (Practical)			Khasi String Instrument (Duitara)(Practical)						
30 Hours			• Fingering Position							
			Rhythm of Ka Skit Lumpaid, Ka Skit Dum Dum							

	• Learning of the Rhythm with scale in Major Scale						
UNIT-III: (Practical) 30 Hours	Learning of More Rhythm and Pieces on Ka Duitara (Practical)						
	Rhythm of Ka Skit ShadwaitThree pieces to be identified by the Teacher						
	• The pieces to be identified by the reacher						
UNIT-IV: (Practical)	Crafting of some traditional instruments						
30 Hours	• Students shall have to craft at least one musical Instrument (Practical)						
Suggested Deedings	1. Costo C. Ka Piti jona ka Pi LainhauSujam Val L						
Suggested Readings	 Costa. G: Ka Riti jong ka Ri LaiphewSyiem Vol I (1036) and Vol II (1938), Don Bosco Press, Shillong. Dilip Bhattacharjee: Musical Instruments of tribal India, Manas Dkhar E.W.: Ka Mariang ka Kren, B.Dkhar, 1999. HanabalahunKharbuki: Khasi Traditional Musical Instruments in East Khasi Hills, West Khasi Hills and Ribhoi District in Meghalaya, Unpublished Dissertation. 						
	 Helen Giri (Ed): KattoKatneshaphang ka Put ka Tem, La Riti Publications. KasliwalSuneera (2001): Instruments Matter Craftsmen of Musical Instruments and Masters. Kharkongor I: U Khasi bad ka Mariang, Mra DarkosNongkhlaw 2005 						
	 Mrs.DarkosNongkhlaw, 2005. 8. Kharsahnoh E W: <i>Ki Sur Bathiang (Na Thwei ka Dohnud):</i> Sweet Melodies from the Heart. La Riti Publication. 						
	 9. Kharsahnoh E W: <i>Voice Lesson I & II</i>, Published by Board of Synod Institute of Music, Shillong, 2009. 10. Khongsit S.: <i>Ki Dieng bad ka Culture Jongngi</i>, Mrs.S. Khongngain, 2012 (Sienshon Ba ar). 11. LapynshaiSyiem: <i>The Evolution of Khasi Music: A</i> Study of the Chargingh Content. Le Divi Dublications 						
	 Study of the Classical Content, La Riti Publications 2005. 12. Publications, New Delhi, 1999. 13. Shangpliang J.S.: U Briew bad ka Mariang (Ki SngiJongngi) Ri Khasi Book Agency, 2014. 14. Webstar Davies Jyrwa: <i>Phra Tylli ki Essay</i>. 						
Requirements	 Music Rooms: Instruments: Drums (KsingShynrang and KsingKynthei) Bom Padiah String Instruments (Duitara): Craft Workshop: Recording Studio: 						

	 9. Performance Hall: 10. IT and Digital Resources: Any other item as required
Qualified Instructors	• Instructors with experience in Khasi Traditional MusicCertifications or relevant qualifications in Khasi Traditional Music

Paper Title				: Baking and Confectionary -I					
CODE				: VTC: 246.1					
Number of Cre		:4							
Semester				: III					
No. of Theory H	Iours Pe	r Week		: One (1	hour)				
No. of Practical			K	: Three (/				
Outline of the					,				
Type of	Units	Hour	Credi	it Total	Distrib	ution of M	larks (as	per OC-	
Course	in the	S	S	Mark	8)		· ·	-	
Baking and	VTC			S	In-Sem	lester	End-Se	emester	
Confectionar					Theor	Practic	Theor	Practic	
y- I					у	al	у	al	
	Unit-I	15			25				
	Theor								
	y (25		4	100					
	Mark								
	s)								
	Unit-	90				15		60	
	II to								
	IV Theorem								
	Theor								
	y (75 Mark								
	s)								
Marks Distribu	/			Internal A	ssessmer	nt: 40			
				External A					
Course Objecti	ves						ty of topic	es related to	
J						ery, and its			
				2. To explain about the various types of food					
				proc	ucts mad	e using bal	king techr	nology	
Course Learnin	ng Outco	me		After the completion of the course the students are					
			ab	able to:					
					1. describe the basic concepts of bakery				
				2. make use of the major and minor baking					
				equipment					
				3. analyse the sensory quality parameter in					
				prepared bread 4. plan and create small-scale bakery unit					
				-, Pian	und ered	to sman-so	ule barel	y unit	
Unit I: (Theory)		In	troductio	n to bake	erv			
15 Hours						•	f bakerv	, Units of	
						1		rganization	
								equipment,	
						atures for	•	/	

Syllabus on Vocational Education and Training Course (VTC)

	 Major baking ingredientsand their functions: Role of raw materials in bread making- Flour, Salt, Leavening Agents, Water, Sugar, Egg, Milk, Fat, Oil. Bread improvers and additives - S.M.P, Soya flour, Glycerol Mono State, Potassium Bromate, Potassium Iodate. Flour: Structure of wheat, Types of Wheat, Types of Flour, Processing of Wheat-flour, Uses of Flour in Food Production, Cooking of Flour (Starch); Characteristics of good flour used for making bread, biscuits and cakes. Quality – Hardness, Gluten strength, protein content, soundness. Ingredients and equipment: Identification and uses of equipment- large, medium, and small; Mixing methods: Basic steps involved in mixing ingredients- Kneading, stirring, whipping, creaming etc.
	 Methods of bread making Bread Making Process - Methods-Straight Dough Method, Ferment dough, salt delayed method, no dough time method- types of bread. Quality of Bread - Characteristic of good bread- External- volume, symmetry, shape, colour- Internal- texture, aroma, elasticity. Bread faults and remedies-Basic reasons for faults, Common bread faults (internal and external), Remedies. Bread diseases:Rope and Mold-Causes and Prevention. Setting up Bakery unit: Setting up a bakery unit-Location, Layout, Selection of equipment, Total space required, and Electricity, Government procedure.
UNIT-II: (Practical) 30 Hours	 A. Basic Laboratory skills for bakery: Introduction to ingredients / Equipment Identification and uses of equipment – large, small and utilities Ingredients – Types of flour, Sugar, Nuts and Dry fruits, Shortenings, leavening etc. Know the different dough making procedures Acquire skill in operating different types of ovens Handling of major and minor baking equipment

	 Analyze the sensory quality parameter in prepared bread Handling the raw materials and baking supplies. Design the layout of bakery unit B. Quality Checking & Basic Mixing Methods Flour: W.A.P Test, Gluten Content Yeast: Flying fermentation Mixing Methods: Basic steps involved in mixing ingredients – Kneading, stirring, whipping, creaming etc. Simple yeast fermented products: Bread Sticks, Bread Rolls, hand and Soft Rolls, sour dough etc.
UNIT-III: (Practical)	A. Preparations:
30 Hours	 Basic buns Fruit buns Hot cross buns Garlic rolls Milk bread Bread loaf Raisin bread Masala bread
UNIT-IV: (Practical)	A. Preparations:
30 Hours	 Fermented doughnuts Brioche Baba au rhum French bread Chelsea bread Croissants Burger buns Pizza base. Visit to the bakery industry: Report writing and presentation
Suggested Readings	 Potter, N. N., & Hotchkiss, J. H. (2012). Food science. Springer Science & Business Media. United States. Mathuravalli, S. M. D. (2021). Handbook of Bakery and Confectionery. CRC Press.United States. The Culinary Institute of America (CIA). (2018). Baking and pastry: Mastering the art and craft (3rd ed.). John Wiley & Sons, United States.

	4. Migoya, F. J. (2017). The elements of dessert. John Wiley & Sons, United States.
Requirements	 Ovens Refrigerators Mixers, blenders, rolling pins, scales, measuring cups and spoons. Baking sheets, pans, molds, mixing bowls, spatulas, whisks, piping bags. Basic Ingredients for baking Any other items as and when required
Qualified Instructors	 Bakery Experts: Hire instructors with extensive experience in baking and food science. Pedagogical Training: Ensure instructors have or receive training in effective teaching methods.

Paper Title			: Baking and Confectionary -II						
CODE			:VTC: 266.1						
Number of Cre	dits		:4						
Semester			: IV						
No. of Theory Hours Per Week			: One (1	hour)					
	No. of Practical Hours per			(3 Hours	5)				
Week		b per	• • • • • • • •	(0 110 11)	•)				
Outline of the	Paper:								
v 1	Units	Hour	Credit			ution of N	Iarks (as	per OC-	
Course	in the	S	S	Mark	8)				
Baking and	VTC			S	In-Sem	1	End-Se		
Confectiona					Theor	Practic	Theor	Practic	
ry - II	Unit-I	15			y 25	al	У	al	
	Theor	15			23				
	y (25								
	Marks		4	100					
)								
	Unit-	90				15		60	
	II to								
	IV								
	Theor								
	y (75 Marks								
Marks Distribu	<u>)</u> Ition		: Interna	al Assess	ment: 4)			
			: External Assessment: 60						
Course Objecti	ives			-		students	the know	wledge on	
				confectio					
						nd illustra			
			manufacturing technology of Confectionary products focusing on skill development to meet						
			the demands from ongoing innovations in the						
			field.						
Course Learnin	ng Outco	me	After completion of the course students are able to:						
	-		1. apply various methods and techniques of baking						
	confectionery products								
			2. connect and differentiate various principles of						
			-	•	kes and i	-	acheri	a of halting	
		apply var of cakes	rious met	nous and t	lecnnique	s of baking			
			sh and	prepare v	various h	aking and			
		-	onery pro		u11005 U	and and			
Unit I: (Theory)			Manufacture of Sugar: Sugarcane, jaggery,						
15 Hours						-	-	ugar, white	
			sugar, beet sugar, manufacture of sugar from sugar						
			cane, refining of sugar.						

	 Confectionery: Introduction - Scope of confectionery, confectionery terms, small and large equipment used in bakery and confectionery. Classification of confectionery: Sugar boiled confectionery- crystalline and amorphous confectionery, rock candy, hard candy, lemon drop, china balls, soft candy, lollypop, marshmallows, fudge, cream, caramel, toffee,
	 lozenges, gumdrops, honeycomb candy. Confectionery Ingredients: Moistening agents- milk, egg, water. Leavening agents-chemical, natural, water vapour. Role of raw materials-wheat flour, sugar, fat, eggs. Essential ingredients, flour sugar, shortening, egg. Optional ingredients baking powder, milk, milk products, dry fruits,
	 baking powder, mink, mink products, dry fruits, baking soda, dairy products. Chocolate Work - Fundamentals of the science of chocolate, Established industry standards in - Tempering, moulding, modelling, enrobing, filling, show pieces, stencils, chocolate couverture.Sugar Work
UNIT-II: (Practical)	 Chemical properties and changes in sugars at various stages of the cooking and cooling processes, Pulled, blown, Spun, Poured, caramelized sugar. Casting of sugar. Pastillage and Saltillage fondant, gum paste and royal icing A. Toffees:
30 Hours	Milk Toffee, Chocolates
	Stick Jaws
	liquor chocolates
	B. Indian Confectionery:
	 Chenna - Rasgulla, Chamcham, Pakiza, Chenna Toast, Rasmalai
	Khoya - Gulab Jamun, Barfi
	 Sugar - Mysore Pak, Ghewar
	• Flour / Besan - Patisa, Shakarpare, Halwa,
	Laddoo, Peda.
	• Milk - Kheer, Rabri
	• Nuts - Barfi, Chekki
UNIT-III: (Practical)	C. Quality checking and sensory tests for products A. Chocolate works:
30 Hours	 Chocolate works: Chocolate candies
	Ganache fillings
	Hand-dipped candies
	Molded bonbons
	• Danish pastry and truffles
	• Use of an enrobing machine
	• Clean and store chocolate candy moulds and other equipment used in chocolate candy making

	B. Quality checking and sensory tests for products
UNIT-IV: (Practical) 30 Hours	A. Sugar works: • Fruit paste • Guimauve (marshmallow) • Praline • Caramels • Nougats • Lollipops • Marzipans • Gummies. • Prepare sugar sticks, nest, bow, ribbon, flower, leaf, bubble sugar and decorations • Appropriate package and display of candies. • Fudge • Almond paste B. Quality checking and sensory tests for products C. Industry Visit: 1. Report writing and presentations
Suggested Readings	 Cauvain, S. P., & Young, L. S. (2008). Baked products: science, technology and practice. John Wiley & Sons, United States. Friberg, B. (2002). The professional pastry chef: fundamentals of baking and pastry. John Wiley &Sons,United States. Pyler, E. J., & Gorton, L. A. (2010). Baking science & technology: Formulation& production. Sosland Pub, United States. Zhou, W., Hui, Y. H., De Leyn, I., Pagani, M. A., Rosell, C. M., Selman, J. D., &Therdthai, N. Bakery Products Science and Technology.Wiley- Blackwell, United States.
Requirements	 Ovens Refrigerators Mixers, blenders, rolling pins, scales, measuring cups and spoons. Baking sheets, pans, molds, mixing bowls, spatulas, whisks, piping bags. Basic Ingredients for baking Any other items as and when required
Qualified Instructors	 Bakery Experts: Hire instructors with extensive experience in baking and food science. Pedagogical Training: Ensure instructors have or receive training in effective teaching methods.

Paper Title			: Baking and Confectionary -III						
CODE				:VTC: 366.1					
Number of Credits			:4						
Semester			:VI						
No. of Theory Hours Per Week			: One (1	l hour)					
No. of Practi	cal Hou	rs per	: Three	(3 Hour	·s)				
Week									
Outline of the			~				/		
Type of Course	f Units Hour in the s		Credit	Total Mark	8)	ution of N	<u> </u>	-	
Baking and	VTC			S	In-Sem	1	End-Se	mester	
Confectiona					Theor	Practic	Theor	Practic	
ry - III					У	al	У	al	
	Unit-I	15			25				
	Theor								
	y (25 Marks		4	100					
)		7	100					
	Unit-	90				15		60	
	II to					_			
	IV								
	Theor								
	y (75								
	Marks								
Marks Distribu	<u>)</u> Ition		• Intern	al Asses	sment: 4	 LO			
					sment:				
Course Objecti	ives		1. To explain to students the how to apply						
_			technology in baking and confectionary.						
			2. To demonstrate how to use manufacturing						
			technology in bakery and confectionary						
				producti	on.				
Course Learni	ng Autoo	mo	After as	molation	ofthas	ourse stud	ante are el	ale to:	
	ng Outco	шс	After completion of the course students are able to: 1. identify different types of ingredients used in						
			1.	confectio		JP05 01	mgreater	1.5 4504 111	
			2. identify the small and large equipment used in						
				confectio		U			
			3.		-	-		nd different	
						uits, pastrie		derivatives	
						ngs and top			
					-	esent inter	national	cakes and	
		pudding	3						
Unit I: (Theory	Unit I. (Theory)			d Biscuit	t manufa	cturing: Pro	ocessing	f cakes and	
15 Hours			Cake and Biscuit manufacturing: Processing of cakes and biscuits- ingredients, development of batter, baking and packing, Spoilage in cakes and biscuits. Cake making						
								methods: rubbing in method, melting method, creaming	
			method, whisking method, all in one method. Cake faults						

UNIT-II: (Practical) 30 Hours	and their remedies. Icing- types of icing. Preparation of cookies and biscuits- principles of cookies and biscuits making, various types of cookies and biscuits, Pastry: Pastry making principles of pastry making, various types of pastries. A. Cake making: • Plain sponge • Madeira cake • Rock cake • Fruit cake • Fatless sponge • Swiss rolls • Genoise sponge B. Icings and Toppings: • Fondant • American frosting • butter cream icing • Royal icing, • Glace icing C. Basic Pastry & Derivatives: • Short crust pastry • Puff pastry • Flaky pastry • Filo pastry
UNIT-III: (Practical) 30 Hours	A. Preparation of Biscuits and cookies: • Plain biscuits • Piping biscuits • Cherry knobs • Langue –de – chats (cats tongue) • Salted biscuits • Nut biscuits • Coconut biscuits • Melting moment • Macaroons • Chocolate biscuits • Nan-khatai • Short bread biscuits • Ginger biscuits • Cheese biscuits • Cream fingers.

UNIT-IV: (Practical)	A. Hot dessert:						
30 Hours	Caramel custard						
	Soufflé chaud						
	 Bread and butter pudding truffle 						
	B. Cold dessert:						
	Bavarois						
	Ginger pudding						
	Cold lemon soufflé						
	Chocolate mousse						
	C. Ice Cream						
	• Vanilla						
	• Strawberry						
	• Chocolate						
	• Pineapple						
	• Mango						
	• Sorbets						
	Bombe						
	Sundaes						
	Parfaits						
	B. Quality checking and sensory tests for products						
Suggested Readings	 John Wiley & Sons, United States. Gisslen, W. (2016). Professional baking (7th ed.). John Wiley & Sons, United States. Pomeranz, Y. (2003). Modern Cereal Science and Technology. MVCH Publications, New York. Figoni, P. (2010). How baking works: Exploring the fundamentals of baking science (2nd ed.). Stanley, P., Cauvain, S. Linda and Young. (2008). Baked Products: Science Technology and Practice. John Wiley & Sons Publishers, United States. Zhou, W., and Hui, Y. H. (2014). Bakery Products Science and Technology. Wiley Blackwell Publishers, United Kingdom. 						
Requirements	 Ovens Refrigerators Mixers, blenders, rolling pins, scales, measuring cups and spoons. Baking sheets, pans, molds, mixing bowls, spatulas, whisks, piping bags. Basic Ingredients for baking Any other items as and when required 						

Qualified Instructors	• Bakery Experts: Hire instructors with extensive
	experience in baking and food science.
	• Pedagogical Training: Ensure instructors have or
	received training in effective teaching methods.

Paper Tit	tle		: I	Beauty Ca	re -I					
CODE			: VTC: 247.1							
Number of Credits			:4							
Semester			: III							
No. of Theory Hours			: One (1 hour)							
Per Week										
No. of Practical Hours			: ']	: Three (3 Hours)						
per Week										
	of the Paj Units	per: Hou		C 124	T-4-1	D: 4	-4		(0,0,0)	
Type of	in the				Total Mark	Distrib	ution of Ma	rks (as p	er UC-8)	
Cours	VTC	S		S	Iviai k S					
e	VIC				3					
Beauty	-					In-Sem	ester	End-Se	mester	
Care -						Theor	Practica	Theor	Practica	
I						v	1	y	1	
	Unit-I	15				25		~		
	Theory									
	(25			4	100					
	Marks									
)									
	Unit-II	90					15		60	
	to IV									
	Theory									
	(75 Marks									
	Niai KS									
Marks D	istributio	n	۰I	nternal A	ssessmei	nt• 40				
				External A						
Course O	bjectives		• -				cognize and	adhere to	professional	
	J								suring high	
								-	all aspects of	
					work.					
			2. To explain and equip students with various techniques of							
			manicure and pedicure, promoting proper nail care and							
			aesthetic enhancement.							
			3. To enable students to apply skills in threading, bleaching,							
			facials, and waxing, offering a range of beauty treatments to meet client needs effectively.							
								or compre	ehensive hair	
							-	-	maintain and	
						-	l appearance			
							••			
Course Learning				udents wil	ll be able	to				
Outcome				1. recognise professional ethics and professional conduct in						
				the work place						
				2. explain and equip themselves with the various technique						
				of m	anicure a	nd pedicu	re			

Syllabus on Vocational Education and Training Course (VTC)

	3. apple the skill of threading, bleaching, facial and waxing4. demonstrate the skill for hair care including hair treatment
Unit I: (Theory) 15 Hours	 Personal Development for beautician and Introduction to Beauty care (Theory) Professional Outlook, Personal Grooming, Professional Ethics and Communication Skills Threading and Bleach - Types, Side effects and Remedial measures Facial - Types, Types of Skin, Phases of massages, Side effects and Remedial measures. Waxing - Types of wax, Types of waxing, Preparation of wax and Testing Importance of hair care, Types of hair, Factors affecting hair growth, Hair problems
UNIT-II: (Practical) 30 Hours	 Introduction to basic Beauty care (Practical): Threading - Materials required, Methods Bleach – Trolley setting, Materials required, Methods Facial - Materials required, Method, Waxing - Methods of applying wax- hand, leg and underarm waxing, Methods of Epilation and Depilation.
UNIT-III: (Practical) 30 Hours	 Manicure and Pedicure (Practical): Types of pedicures and manicure Manicure and pedicure techniques Nail Art: Different methods of nail art, types of nail polish, application and their methods. Mehandi: Introduction, preparation of Mehandi paste, Mehandi cone preparation and Technique of application - hands and legs.
UNIT-IV: (Practical) 30 Hours	 Hair Care (Practical) Scalp massage - Materials required and Procedure and Technique Shampooing and rinsing- Types of shampoo and their uses, Application and Technique, Types of rinses and methods of rinsing Hair conditioning – Types of Hair conditioner, Application and Technique Hair Treatment
Suggested Readings	 Burne, Deborah. The Beauty Geek's Guide to Skin Care: 1,000 Essential Definitions of Common Product Ingredients. Rockridge Press, 2019 Coetzee, Bronwyn. Manicure & Pedicure: A Complete Guide to Beautiful Hands and Feet. Kindle Editions 2015 Essential Beauty Guide. Goodwill Publishing House 2001 Gupta, Renu. Complete Beautician course. New Delhi, Diamond pocket books Pvt Ltd, 2001

	5. Husain, Shanaz. Shahnaz Husain's Beauty Book, Orient
	 Paperbacks, 2014 6. Johnson, Dale H. Hair and Hair Care. New York: Marcel Decker Inc, 1997
	7. Kochar, Blossom. Hair, Skin and Beauty Care 9 The
	complete body Book. New Delhi: VBSPD/VBS
	Publishers Distributors Ltd 2000
	8. Paudwal, Madhumita. Practical Guide to Beautician
	Training. New Delhi: Asian Publishers, 20029. Saikia, Madhumita. Basic Beautician Training Course.
	Computech Publications Limited, 2019
	10. Sinha, M, Rajgopal and Banerjee. S. All You Wanted To
	Know About Hair Care. New Delhi: Sterling Publishers
	Pvt. Ltd, 2000
Requirements	11. Threading
Requirements	
	• Thread (antibacterial and hypoallergenic)
	• Tweezers
	Threading scissors
	Disinfectants and sterilization equipment
	Bleach
	Bleach creams and powders
	Mixing bowls and applicators
	Trolley for organization
	• Protective gear (gloves, masks)
	• Aftercare products (soothing creams, lotions)
	Facial
	Cleansers, toners, and moisturizers
	Facial masks and scrubs
	Massage creams and oils
	Steamers and facial towels
	 Sponges and cotton pads Facial beds/chairs
	Waxing
	• Wax heaters
	• Different types of wax (soft, hard, strip)
	• Wax applicators (spatulas)
	Waxing strips
	• Pre-wax and post-wax care products
	Manicure and Pedicure

r	
	• Manicure and pedicure kits (nail files, buffers,
	clippers, cuticle pushers)
	Bowls for soaking
	• Foot baths and spas
	• Exfoliating scrubs
	• Lotions and creams
	Nail Art
	• Nail polishes (various types and colors)
	 Nail art brushes and tools
	 Stencils and stickers
	 UV/LED nail lamps for gel polish
	Mehandi
	Henna powder
	Mixing bowls and spoons
	 Mixing bowls and spools Mehandi cones
	• Design stencils and instructional guides
	Hair Care
	Scalp Massage
	Massage oils and creams
	•
	Scalp massagers and brushes Tawala and assage
	• Towels and capes
	Shampooing and Rinsing
	• Various types of shampoos and conditioners
	Rinsing bowls or salon sinks
	Applicator bottles
	Hair Conditioning
	• Different hair conditioners
	• Leave-in conditioners and hair masks
	Heat caps and steamers
	Hair Treatment
	• Treatment encoifie meduate (anti der der ff anti heir f-11)
	• Treatment-specific products (anti-dandruff, anti-hair fall)
	Applicators and mixing bowls
	• Towels and capes

	Any other item as and when required
Qualified Instructors	 Qualified instructors with experience in beauty care Guest lecturers or industry professionals for specialized sessions Ensure instructors have or receive training in effective teaching methods.

Paper Tit	fla			· Roa	uty Care	_ TI				
CODE				: Beauty Care -II : VTC: 267.1						
Number of Credits				: 4						
Semester				: 4 : IV						
No. of Theory Hours Per					e (1 hour)				
Week			: One (1 hour)							
No. of Practical Hours per				• Thr	ee (3 Ho	urs)				
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Туре	Units	Hour	C	redit	dit Total Distribution of Marks (as per OC					
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Course C	bjectives			1. To enable students to identify hair anatomy, hair						
	bjecuves			1		nd condit		ily nan a	natomy, nan	
				2. To enable students to recognize hair and scalp						
				disorders and implement massage techniques						
				3. To enable students to develop proficiency in hair						
				cutting and hair styling techniques						
				4. To choose appropriate hair colour and make use of						
				colouring techniques						
Course L	earning (Jutcome		At the end of the course students will be able to:						
				1					identify hair	
							different hai	• •	·	
				2	-		-		e influencing	
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				2			ious massag	-		
				3			-	o nair cut	ting and hair	
				styling techniques						
				4. describe the classification of hair colour and as					JUUI AIIU AS	
Unit I: (7	Theory)			well as colouring techniquesIntroduction to Hair care (Theory)						
15 Hours	• /			muu			(Theory)			
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UNIT-II: (Practical) 30 Hours	 Anatomy and physiology of hair, Hair analysis, Structure of hair and Layers of Hair Benefits of hair spa and Precautions Study of profiles, Hair shaping and cutting implements and their uses, Different types of sectioning and patterns making. Basic law of colour, classification of hair colour, allergy test and precaution, hair dyeing (Herbal & Chemical) Scalp Massage and Hair Spa (Practical) Identifying client's hair and scalp condition Procedure of hair spa and Massage manipulation Hair Spa for - dandruff, oily scalp, coloured hair, hair smoothing and itchy scalp Massage techniques: Effleurage, petrissage,
	tapotement, rotary, vibration, friction,
	champissage
UNIT-III: (Practical)	Hair Cutting and Hair styling (Practical)
30 Hours	• Types of cutting to suit the texture (fine, curly,
	straight, wavy and course hair).
	• Types and technique of haircuts- trimming, blunt-
	cut, layered, cutting & tapering
	 Basic hairstyle - Open Hair Styles, Semi-Tied & Up styles, Bridal Hair Dos, Party Hairdos, Sleep-in
	Looks, Ringlets and Plaits
	 Types of hairstyling -Thermal styling, Wet styling,
	Roller Setting and Artificial Aids, Technique of
	Hair styling: Rolls, twists, braiding, Roller setting,
	Blow drying, Comb out techniques,
UNIT-IV: (Practical)	Hair colouring and tinting (Practical)
30 Hours	• Examination of scalp and hair: Skin test, colour or
	dye selection, Sectioning the hair, application of
	hair, colour or dye, conditioning and setting.
	 Colouring techniques – frosting, tipping, slicing, foil technique, comb technique, global colouring.
	 Types and techniques of crimping
	Pre and post treatment
Suggested Readings	1. Claude Bouillon and John Wilkinson. The Science
~ "990"""	of Hair Care, Taylor & Francis, 2005
	2. Goldman, D. The Professional's Illustrated Guide
	to Haircare & Hairstyles, Lorenz Books, 2010
	3. Johnson, Dale H. Hair and Hair Care. New York:
	Marcel Decker Inc, 1997
	4. Kochar, Blossom. Hair, Skin and Beauty Care. New Delhi: VBSPD/VBS Publishers Distributors
	Ltd 2000
	5. Meenakshi Sinha, Reena Rajgopal, Suchismita
	Banerjee. All You Wanted to Know About Hair

	Care, New Delhi: Sterling Publishers Pvt. Ltd.,
	2000 6 Parott Hairstyles Coloring Book Nation Press
	6. Parott. Hairstyles Coloring Book, Notion Press 2022
	7. Paudwal, Madhumita. Practical Guide to
	Beautician Training. New Delhi: Asian Publishers,
	2002
	8. Regan Peter. Hair Colour Book: A Practical Guide
	To The Theory Of Colouring Hair. Kindle Edition
	2018
	9. Worthington, C. The Complete Book of
	Hairstyling., Carlton Books Ltd, 2001
Requirements	Hair Spa
	• Hair spa products (shampoos, conditioners, masks)
	Massage oils and creams
	Towels and capes
	Hair Cutting and Hair Styling
	High quality hair outting gaiggors
	 High-quality hair cutting scissors Thing in a shaper
	Thinning shearsRazors
	Combs and sectioning clips
	Basic Hairstyle Techniques
	• Usin stuling meduate (asle smoote manages)
	 Hair styling products (gels, sprays, mousses) Hair accessories (ning, hands, sling)
	 Hair accessories (pins, bands, clips) Table for greating different styles (syrling inone)
	• Tools for creating different styles (curling irons, flat irons, rollers)
	 Instructional materials for various styles (open
	hairstyles, semi-tied styles, bridal hairdos, party
	hairdos, sleep-in looks, ringlets, and plaits)
	Examination of Scalp and Hair
	Skin test kits
	Color or dye selection charts
	Sectioning clips and combs
	Colouring Techniques
	• Hair coloring products (frosting, tipping, slicing,
	foil technique, comb technique, global coloring)
	Applicators (brushes, bowls)
	Protective gear (gloves, capes)

	Conditioning and setting products						
	Types and Techniques of Crimping						
	Crimping tools and ironsInstructional guides on crimping techniques						
	Pre and Post Treatment						
	 Pre-treatment products (scalp protectors, primers) Post-treatment products (conditioners, serums) Care instructions for colored and treated hair 						
Qualified Instructors	 Qualified instructors with experience in hair care and styling Guest lecturers or industry professionals for specialized sessions Ensure instructors have or receive training in effective teaching methods. Any other item as and when required						

CODE : VTC: 367.1 Number of Credits : 4 Semester :VI No. of Theory Hours Per : One (1 hour) Week : One (3 Hours) No. of Practical Hours per : Three (3 Hours) Week : Three (3 Hours) Outline of the Paper: : Total Type Units of in the s Mark Cours VTC e In-Semester Basic End-Semester	: Beauty Care III							
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Course Objectives 1. To enable students to identify and explain vari								
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skin care problems, such as acne, dryness,								
sensitivity, and describe basic skin care methods	as to							
address these issues effectively. 2. To enable students to develop and equip oneself w	with							
techniques for effective facial cleansing and fa								
	massage, promoting healthy skin and relaxation.							
3. To enable students to gain proficiency in apply								
different types of facial makeup, includ								
foundation, eyeshadow, and lipstick, to enhance fa	facial							
features and create desired looks.	-							
4. To enable students to discover and describe difference								
types of spa therapies and massage technique	-							
learning how they contribute to overall wellness skin health.	s and							
SKIII licatui.								
Course Learning Outcome At the end of the course students will be able to								
1. identify and explain the various skin care proble	olems							
and describe the basic skin care methods								

Unit I: (Theory) 15 Hours	 develop and equip themselves with the techniques of facial cleansing and facial massage make use of skills relating to facial make-ups discover different types of spa therapies and massage techniques Introduction Importance of skin care, Factors affecting skin condition, skin analysis, Basic skin care methods Natural and artificial Classification & identification of common skin problems, Skin type and treatment, Types of Natural cleanser, importance and types of Toners Types of facial, Facial masks- Benefits and contraindications, Types of Make-up SPA products and knowledge, Product Testing, Efficacy, Shelf Life, Storage, Contamination and Allergies, Types of massage Therapy, benefits of
UNIT-II: (Practical) 30 Hours	 Allergies, Types of massage Therapy, benefits of massage and its precautions Cleansing and Facial Types of Cleanser, Techniques of cleansing for different skin types Techniques used in Plain facial, Vegetable peel facial, Gauze facial, Paraffin mask treatment, High frequency facial, Ozone facial, Galvanic facial, Thermo herb facial, Aroma facial, Gold and silver facial. Knowledge and use of machines in facial Pack and mask- Preparation of pack and mask, Techniques of applying face pack and mask
UNIT-III: (Practical) 30 Hours	 Make-up Color Wheel, Skin tones, Brow shaping Selection of cosmetics -Foundation Gel, Moisturizer, Face powder, Face compact, Concealer, Blusher, Eye shadow and lipstick Selection of Tools - Different types of brushes, Make- up products, Selection of Sponges Techniques of applying Make-up- Day make-up, Evening Make-up, Party Make-up, Bridal Make-up and special effects make-up
UNIT-IV: (Practical) 30 Hours	 SPA SPA therapies - Acupressure, Acupuncture, Colon therapy, Ear Candling SPA products and its uses - Essential Oils, Aromatic Oils, Body Scrubs, Body Wraps, Active Ingredients,

	 Carrier Oil & Base Creams, Pre blended oils, pre- blended creams, Soaps, lotions. Seasonal SPA therapy - winter, spring, summer, and autumn Massage Techniques and procedure
Suggested Readings	1. Baumann, Leslie. The Skin Type Solution, Bantam, 2006
	 Baxi, Nishant. Massage Therapy, Notion Press, 2023 Brown, Bobbi. Makeup Manual, Grand Central Life & Style, 2011
	 Goroway, Patricia. Facial Fitness, Ergodebooks, 2006 Handa, P. Speaking of Skin Care, New Dawn Press, 2007
	6. Reyna, G.M. How to Be a Professional Makeup Artist, Kindle Edition, 2013
	7. Shapiro, B. Skin Deep: Women on Skin Care, Makeup, and Looking Their Best, Harry N. Abrams,2017
	8. Sharma, Rajiv. Skin And Hair Care, Delhi: Manoj Publications, 2017
	 9. Steve Capellini, (2009), The Complete Spa Book for Massage Therapists, Cengage Learning Publishing 10. Tezak, Edward. Successful Salon and Spa
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Requirements	Management, Milady Publishing Co, 2011 Cleansing and Facial
Requirements	Cleansing and Facial
Requirements	
Requirements	Cleansing and Facial Facial Techniques
Requirements	Cleansing and Facial Facial Techniques • Facial beds or chairs
Requirements	Cleansing and Facial Facial Techniques
Requirements	Cleansing and Facial Facial Techniques • Facial beds or chairs • Facial steamers • Machines for advanced treatments (galvanic, ozone) • Masks and treatment products (paraffin, high
Requirements	 Cleansing and Facial Facial Techniques Facial beds or chairs Facial steamers Machines for advanced treatments (galvanic, ozone) Masks and treatment products (paraffin, high frequency) Pack and Mask - Preparation of Pack and Mask,
Requirements	 Cleansing and Facial Facial Techniques Facial beds or chairs Facial steamers Machines for advanced treatments (galvanic, ozone) Masks and treatment products (paraffin, high frequency) Pack and Mask - Preparation of Pack and Mask, Techniques of Applying Face Pack and Mask Mixing bowls and spatulas Ingredients for pack and mask preparation (clays, herbs)
Requirements	 Cleansing and Facial Facial Techniques Facial beds or chairs Facial steamers Machines for advanced treatments (galvanic, ozone) Masks and treatment products (paraffin, high frequency) Pack and Mask - Preparation of Pack and Mask, Techniques of Applying Face Pack and Mask Mixing bowls and spatulas Ingredients for pack and mask preparation (clays, herbs) Instructional guides on application techniques

	Solution of Cogmotiza				
	Selection of Cosmetics				
	 Makeup brushes (various types for foundation, eye makeup, blush) Sponges and applicators Makeup products for different skin tones and types 				
	SPA Therapies - Acupressure, Acupuncture, Colon Therapy, Ear Candling				
	 SPA therapy equipment (acupressure mats acupuncture needles, ear candles) Safety and hygiene protocols for specialized therapies 				
	SPA Products and Their Uses				
	 Essential oils, aromatic oils, carrier oils Body scrubs, wraps, active ingredients Pre-blended oils, creams, soaps, and lotions Seasonal SPA Therapy - Winter, Spring, Summer, and Autumn				
	Seasonal skincare products (moisturizers, masks)Instructional materials on seasonal treatments				
	Massage Techniques and Procedure				
	 Massage tables or chairs Massage oils and creams Training on various massage techniques (swedish, deep tissue, aromatherapy) 				
	Any other item as and when required				
Qualified Instructors	 Qualified instructors with experience in skincare, makeup, and spa therapies Guest lecturers or industry professionals for specialized sessions Ensure instructors have or receive training in effective teaching methods. 				

Syllabus on Vocational Education and Training Course (VTC);

Paper Title				: Fashior	n Design -	·I			
CODE				:VTC: 247.3					
	Number of Credits				:4				
Semester	Semester				: IV				
No. of Th	No. of Theory Hours Per Week				: One (1 hour)				
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Type of		Hour	Cre	edit	it Total	Distribution of Marks (as per OC-8)			
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			:Ex	ternal As	ssessment	t: 60			
Course O	Course Objectives Th			The	course is	designed	to familiar	ize the stu	idents to the
				conc	cept and j	practice o	of fashion d	esign by	encouraging
the			then	n to explo	ore their in	magination,	creativity	and fashion	
set			sens	e.					
<u> </u>				A. C.	.1	1	2.1	1 , 1	. 11 .
Course Lo	earning O	outcome				-			ts are able to
					make use of the learnt experiences and artistry to come up with designs and innovations which is necessary in the				
				realm of clothing and fashion design.					
rea			rean		ing and Is	asmon desig	,11.		
Unit I: (T	heory)			Eler	nents of	f Desion	: Primary	Colours	Secondary
15 Hours					Elements of Design: Primary Colours, Secondary Colours, Colour Wheel, Tints & Shades, Shapes (Line &				
10415					Form), Colour Interaction, Motif, Repeats, Texture (2-2D				
					& 3-3D), Paper Craft (Quilling, Layering, Rolling,				
					coiling & Exploration). Lab Sessions.				
					<u> </u>				
UNIT-II:	(Practical	l)		Fasl	hion Illu	stration:l	Front Block	Figure,	Front Flesh
30 Hours				-	igure, Side Block Side Figure, Side Flesh Figure, Pose-				
				1, P	ose-2, St	ylize Fig	ure, Figure	with Fab	rics Sketch,

	Figure with Different Medium, Different Types of Garments Silhouette. Lab Sessions.				
UNIT-III: (Practical) 30 Hours	Surfaces Development Technique: Basic Embroidery (Running Stitch, Double Running Stitch, Stem Stitch, Chain Stitch, Feather Stitch, Fly Stitch, Button Hole/ Basket Stitch, Single Satin Stitch, Double Satin Stitch, Lazy Daisy, French Knot, Bullion Knot), Exploration, Traditional Embroidery (Kantha, Phulkari, Kashida, Kasuti, Banjara), Tie & Dye (Ombre, Crunching, Pinching, Folding, Stripes, Titrik, Sunburst, Bulls Eye, Exploration with Natural Dye-5, Mix Media), Knitting & Crochet (Knit & Purl, Cable, Rib, Purl, Knit, Crochet & Exploration), Weaving (Plain, Twill, Basket, Satin & Exploration), Fabric Analysis, Stencil Painting. Lab Sessions.				
UNIT-IV: (Practical) 30 Hours	Garment Construction : Understanding the Machine, Basic Line Stitching, Seam Stitching (Plain, French, Flat & Felt, Lapped, Turned & Stitch, Pinked, Pinked & Stitch, Hand Overcast, Overlock, Mock Seam, Seam Binding with Tape, Bias Bound, Hong Kong Bound, Welt, Sloth), Hem Stitching (Blind Hem, Slip Hem, Top Stitch Hem, Narrowed Top Stitch Hem), Pleats (Knife Pleats, Box Pleats, Inverted Box Pleats), Gathers Shirring, Tucks (Pin Tucks, Space Tucks, Blind Tucks, Cross Pin Tucks), Facing (Shape Facing, Bias Facing & Combine Facing), Trims (Velcro, Snap Button, Hook & Eye, Skirt Hook & Eye, Buttons, Zipper). Lab Sessions.				
Suggested Readings	 Arbetter, Lisa. 2003. Secrets of Style: Instyle's Complete Guide to Dressing Your Best Everyday. New York: Hachette Book Group. Bheda, Rajesh. 2006. Managing Productivity in the Apparel Industry. Bengaluru: CBS Publishers. Bliss, Debbie & Peverill, Sue. 1985. "She" Fashion Clothes. London: Ebury Press. Burgo, Fernando. 2002. Il Figurino di Moda. Milan: Istituto Di Moda Burgo. Chijiiwa, Hideaki. 1994. Colour Harmony: A Guide to Creative Colour Combinations. Gloucester: Rockport Publishers. Dwivedi, Sharada. 2000. Abu Jani, Sandeep Khosla: A celebration of style. AJSK Publications. Frings, Gini Stephens. 2008. Fashion: From Concept to Consumer. New Jersey: Pearson Prentice Hall. 				

Requirements	 8. Ireland, Patrick John. 2006. Fashion Design Drawing and Presentation (Fourth Edition). London: Batsford Ltd. 9. Jaffe, Hilde & Relis, Nurie. 2011. Draping for Fashion Design (Fifth Edition). New Jersey: Pearson. 10. Lorenz, Joanna. 2000. The Complete Book of Papercrafts: A Truly Comprehensive Collection of Papercraft Ideas, Designs and Techniques, with over 300 Projects. Pennsylvania: Hermes House. 11. Peacock, John. 1993. 20th Century Fashion. London: Thames & Hudson Ltd. 12. Portas, Mary. 1999. Windows: The Art of Retail Display. London: Thames & Hudson Ltd. 13. Pugh-Gannon, JoAnn. 1999. Making the Most of Your Sewing Machine & Serger Accessories. New York: Sterling Pub Co Inc. 14. Sodhia, Manmeet & Chatley, Pooja. 2003. Fashion Marketing And Merchandising. Ludhiana: Kalyani Publishers.
	 Figures (Block & Flesh): Sketchpads, pencils, erasers Poses: Fashion illustration templates, sketchpads Stylize Figure: Markers, coloured pencils, watercolours Figure with Fabrics Sketch: Fabric swatches, glue, sketchpads Different Mediums: Markers, watercolours, pastels Garment Silhouettes: Templates, sketchpads Surface Development Techniques Basic Embroidery: Embroidery hoops, needles, threads, fabric Traditional Embroidery: Kantha, Phulkari, Kashida, Kasuti, Banjara threads and fabrics Tie & Dye: Fabrics, dyes, rubber bands, gloves Knitting & Crochet: Knitting needles, crochet hooks, yarn Weaving: Looms, various threads, yarns Fabric Analysis: Magnifying glass, fabric swatches Stencil Painting: Stencils, fabric paints, brushes

	 Machine Understanding: Sewing machines, manuals Basic Line Stitching: Sewing machine, threads, fabric scraps Seam Stitching: Threads, fabric, needles, sewing machines Hem Stitching: Threads, fabric, sewing machines Pleats & Gathers: Fabric, sewing machines Tucks: Fabric, sewing machines Facing: Fabric, interfacing materials Trims: Velcro, snaps, hooks, eyes, buttons, zippers Lab Sessions Hands-on Practice: Materials listed above for practical application in each category. Fashion Show & Exhibition Preparation: Mannequins, fabric, design boards, sewing machines, lighting, runway setup. Instructors with experience in Fashion Design 					
Qualified Instructors	 Instructors with experience in Fashion Design Certifications or relevant qualifications Fashion Design 					

Paper Tit	le		: Fashi	: Fashion Design-II					
CODE				:VTC: 267.3					
Number o	of Credits		:4	:4					
Semester			:IV	:IV					
No. of Theory Hours Per			: One (: One (1 hour)					
Week									
No. of Pr	actical H	ours per	: Three	e (3 Hou	rs)				
Week									
	of the Pap			TAL	D' / 'I	4° 6 8.4	1 (
Type of Course	in the	Hour	Credit	Total Mark	Distrib	ution of Ma	rks (as p	er OC-8)	
Fashio	VTC	S	S	S NIALK	In-Sem	ostor	End-Se	mostor	
n	VIC			3	Theor	Practica	Theor	Practica	
Design					v		y	l	
- II	Unit-I	15			25	-	3	-	
	Theor								
	y (25								
	Marks		4	100					
)								
	Unit-II	90				15		60	
	to IV								
	Theor								
	y (75								
	Marks								
Marks Di) stribution	1	: Inter	nal Asses	sment: 4	0			
				ssment: 6					
Course O	bjectives			The course is tailored to guide the students in understanding					
				fabric, textile and clothing material through an engagement with stitching, pattern-making, colour-blending and styling.					
			with st	itching, p	attern-ma	king, colour	-blending	and styling.	
<u> </u>				1.1	0.1	. 1	. 11		
Course Lo	earning O	outcome		-				e to develop	
				the necessary skills and sense to help in the design and production of clothing and fashion accessories.					
			produc	production of clothing and fasmon accessories.					
Unit I: (T	heory)		Patter	n Makir	ıg & Fa	shion Stvl	ing: Wor	nen's Basic	
15 Hours	37			Pattern Making & Fashion Styling: Women's Basic Bodice, Basic Sleeve, Basic Skirt, Basic Pants, Collars (3					
			Types of Collars), Cuff, Plackets (Continuous Placket,						
			Diamo	Diamond Placket, Continuous Shirt Placket, Shirt Placket),					
			Women's Top, Women's Pant Variation, Kids Garment						
			• • /	(Any). Fashion Makeover, Theme Styling (Create & Style					
					awing ins	piration fro	om any t	theme). Lab	
			Session	18.					
UNIT II.	(Dreatical	n	Final	Draduat		tion Door	la (7 D.	anda) One	
UNI1-11: 30 Hours	UNIT-II: (Practical)			Final Products : Collection Boards (7 Boards), One Complete Onsome 1 Theme Lab Sessions					
			Compl	Complete Onsome – 1 Theme. Lab Sessions					
UNIT-III:	(Practics	al)	Portfo	lio Devel	opment: (Creation of a	professio	nal portfolio	
30 Hours		,			-		-	the student.	
				0		0 "	~ .		

	Presenting designs to make them visually appealing. Design aesthetic communication. Lab Sessions
UNIT-IV: (Practical) 30 Hours	Internship / Apprenticeship (for 1 semester): Assisting Designers. Support Production. Marketing & PR Support. Research & Trend Analysis. Administrative Tasks. Networking Opportunities.
Suggested Readings	 Arbetter, Lisa. 2003. Secrets of Style: Instyle's Complete Guide to Dressing Your Best Everyday. New York: Hachette Book Group. Bheda, Rajesh. 2006. Managing Productivity in the Apparel Industry. Bengaluru: CBS Publishers. Bliss, Debbie & Peverill, Sue. 1985. "She" Fashion Clothes. London: Ebury Press. Burgo, Fernando. 2002. Il Figurino di Moda. Milan: Istituto Di Moda Burgo. Chijiiwa, Hideaki. 1994. Colour Harmony: A Guide to Creative Colour Combinations. Gloucester: Rockport Publishers. Dwivedi, Sharada. 2000. Abu Jani, Sandeep Khosla: A celebration of style. AJSK Publications. Frings, Gini Stephens. 2008. Fashion: From Concept to Consumer. New Jersey: Pearson Prentice Hall. Ireland, Patrick John. 2006. Fashion Design Drawing and Presentation (Fourth Edition). London: Batsford Ltd. Jaffe, Hilde & Relis, Nurie. 2011. Draping for Fashion Design (Fifth Edition). New Jersey: Pearson. Lorenz, Joanna. 2000. The Complete Book of Papercrafts: A Truly Comprehensive Collection of Papercraft Ideas, Designs and Techniques, with over 300 Projects. Pennsylvania: Hermes House. Peacock, John. 1993. 20th Century Fashion. London: Thames & Hudson Ltd. Portas, Mary. 1999. Windows: The Art of Retail Display. London: Thames & Hudson Ltd. Pugh-Gannon, JoAnn. 1999. Making the Most of Your Sewing Machine & Serger Accessories. New York: Sterling Pub Co Inc. Sodhia, Manmeet & Chatley, Pooja. 2003. Fashion Marketing And Merchandising. Ludhiana: Kalyani Publishers.
Requirements	Fashion Illustration
	• Figures (Block & Flesh): Sketchpads, pencils, erasers

	Poses: Fashion illustration templates, sketchpads Studian Figure: Markers coloured remails
	• Stylize Figure: Markers, coloured pencils, watercolours
	 Figure with Fabrics Sketch: Fabric swatches, glue,
	sketchpads
	• Different Mediums : Markers, watercolours, pastels
	• Garment Silhouettes: Templates, sketchpads
	Surface Development Techniques
	• Basic Embroidery : Embroidery hoops, needles, threads, fabric
	• Traditional Embroidery : Kantha, Phulkari,
	Kashida, Kasuti, Banjara threads and fabrics
	• Tie & Dye: Fabrics, dyes, rubber bands, gloves
	• Knitting & Crochet: Knitting needles, crochet
	hooks, yarn
	• Weaving: Looms, various threads, yarns
	 Fabric Analysis: Magnifying glass, fabric swatches Stencil Painting: Stencils, fabric paints, brushes
	• Stehen I anting. Stehens, faorie paints, orusies
	Garment Construction
	• Machine Understanding: Sewing machines,
	manuals
	• Basic Line Stitching: Sewing machine, threads,
	fabric scraps
	• Seam Stitching: Threads, fabric, needles, sewing
	 machines Hem Stitching: Threads, fabric, sewing machines
	 Hem Stitching: Threads, fabric, sewing machines Pleats & Gathers: Fabric, sewing machines
	 Tucks: Fabric, sewing machines
	• Facing : Fabric, interfacing materials
	• Trims: Velcro, snaps, hooks, eyes, buttons, zippers
	Lab Sessions
	• Hands-on Practice: Materials listed above for
	practical application in each category.
	• Fashion Show & Exhibition Preparation:
	Mannequins, fabric, design boards, sewing
	machines, lighting, runway setup.
	Any other item as required
Qualified Instructors	• Instructors with experience in Fashion Design
	• Certifications or relevant qualifications Fashion
	Design

Paper Tit	: Fast	: Fashion Design-III							
CODE				: VTC: 367.3					
Number o	of Credits		:4						
Semester			:VI						
No. of Theory Hours Per			: One	: One (1 hour)					
Week									
	No. of Practical Hours per			ee (3 Hou	ırs)				
Week									
	of the Pap						•		
Type of	Units	Hour	Credit		Distrib	ution of Ma	rks (as p	er OC-8)	
Course Fashio	in the VTC	S	S	Mark	I. C.				
	VIC			S	In-Sem		End-Semester		
n Design					Theor	Practica	Theor	Practica	
Design III	Unit-I	15			y 25		У	1	
111	Theor	15			25				
	y (25		4	100					
	y (23 Marks		-	100					
)								
	Unit-II	90				15		60	
	to IV					_			
	Theor								
	y (75								
	Marks								
)								
Marks Di	stributior	1			essment: 4 essment:				
Course O	bjectives		The c	ourse is	designed	to familiar	ize the st	tudents with	
			fashio	n history	v, trends a	and fashion	economi	cs including	
			shows	and page	eants.				
Course L	earning O	outcome				ourse stude			
						formation a			
				fashion trends, their cultural dimensions including the relationship with performance					
			relatio	relationship with performance.					
Unit I. (T	heory)		Fachi	Fashion History & Theory: History of fashion and its					
15 Hours	Unit I: (Theory) 15 Hours			evolution over time. Social, Cultural & Economic factors					
10 110415				that have influenced fashion trends throughout history. Lab					
			Sessio				O - I - U		
UNIT-II:	(Practical	l)	Fashi	on Mark	eting & I	Merchandis	s ing : Busi	ness aspects	
30 Hours			of fas	of fashion design. Fashion marketing strategies, retail					
				operations and branding. Lab Sessions.					
UNIT-III	: (Practica	al)		Fashion Production: Manufacturing process and					
30 Hours			-	production techniques used in the fashion industry. Quality					
* 1 × 1 × 1 ×		•				anagement.			
UNIT-IV:	(Practica	l)		Fashion Sustainability : Environmental and social impact of the fashion industry. Sustainable design practices,					
30 Hours			of the	e tashioi	n industr	y. Sustaina	ble desig	n practices,	

Ethical manufacturing and responsible consumption. Lab Sessions.
365510115.
Fashion Show & Fashion Exhibition
 Arbetter, Lisa. 2003. Secrets of Style: Instyle's Complete Guide to Dressing Your Best Everyday. New York: Hachette Book Group. Bheda, Rajesh. 2006. Managing Productivity in the Apparel Industry. Bengaluru: CBS Publishers. Bliss, Debbie & Peverill, Sue. 1985. "She" Fashion Clothes. London: Ebury Press. Burgo, Fernando. 2002. Il Figurino di Moda. Milan: Istituto Di Moda Burgo. Chijiiwa, Hideaki. 1994. Colour Harmony: A Guide to Creative Colour Combinations. Gloucester: Rockport Publishers. Dwivedi, Sharada. 2000. Abu Jani, Sandeep Khosla: A celebration of style. AJSK Publications. Frings, Gini Stephens. 2008. Fashion: From Concept to Consumer. New Jersey: Pearson Prentice Hall. Ireland, Patrick John. 2006. Fashion Design Drawing and Presentation (Fourth Edition). London: Batsford Ltd. Jaffe, Hilde & Relis, Nurie. 2011. Draping for Fashion Design (Fifth Edition). New Jersey: Pearson. Lorenz, Joanna. 2000. The Complete Book of Papercraft Ideas, Designs and Techniques, with over 300 Projects. Pennsylvania: Hermes House. Peacock, John. 1993. 20th Century Fashion. London: Thames & Hudson Ltd. Pugh-Gannon, JoAnn. 1999. Making the Most of Your Sewing Machine & Serger Accessories. New York: Sterling Pub Co Inc. Sodhia, Manmeet & Chatley, Pooja. 2003. Fashion Marketing And Merchandising. Ludhiana: Kalyani Publishers.
Fashion Illustration
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	• Different Mediums: Markers, watercolours,
	pastelsGarment Silhouettes: Templates, sketchpads
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	 Basic Embroidery: Embroidery hoops, needles, threads, fabric Traditional Embroidery: Kantha, Phulkari, Kashida, Kasuti, Banjara threads and fabrics Tie & Dye: Fabrics, dyes, rubber bands, gloves Knitting & Crochet: Knitting needles, crochet hooks, yarn Weaving: Looms, various threads, yarns Fabric Analysis: Magnifying glass, fabric swatches
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	Any other item as required
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