

2.6.1 Programme Outcomes

2.6.1 Program Outcomes, Program Specific Outcomes and Course Outcomes for all programs offered by the Department:

S. No.	Program outcomes		Program specific outcomes	Course outcomes	
	Name of the Program	Outcome		Name of the Course	Outcome
1.	M.A Tamil	<p>* தமிழ் மொழியின் சிறப்பியல்புகளை அறியச் செய்தல்.</p> <ul style="list-style-type: none"> • தமிழ் இலக்கண நூல்களைக் கற்பித்தல். • தமிழ் இலக்கியங்களை ஆழமாகக் கற்பித்தல். • மொழியியல் நூட்பங்களையும் தமிழோடு ஒப்பிட்டு எடுத்துரைத்தல் • தமிழக வரலாற்றையும் பண்பாட்டையும் 	<ul style="list-style-type: none"> • தமிழ் சார்ந்த வேலை வாய்ப்புத் திறன்களை உருவாக்குதல் • எழுத்தாற்றல், பேச்சாற்றல், படைப்பாற்றல் முதலிய திறன்களைத் தூண்டுதல் • சமகால வளர்ச்சிக்கேற்ப மொழியைப் பயன்படுத்தும் திறன்களை வளர்த்தல். • தமிழின் தொன்மை, தொடர்ச்சி, மரபு, தனித்தன்மை போன்ற பண்புகளை அறியச் செய்தல். 		
				411-101 - தற்கால இலக்கியங்கள்	<ul style="list-style-type: none"> ➤ கால வளர்ச்சியில் இக்கால இலக்கியங்களில் ஏற்பட்டுள்ள வடிவ, பொருண்மை மற்றும் உத்திகளில் ஏற்பட்டுள்ள மாற்றங்களைத் தெரிந்துகொள்ளுதல். ➤ இக்கால இலக்கியம் உணர்த்தும் உலக மாந்தர்களின் வாழ்வியலையும் அறவியல், பொருளியல் சிந்தனைகளையும் கண்டறிந்து மாணவர்களுக்குப் புலப்படுத்துதல்.
				411-102 - அற இலக்கியங்கள்	<ul style="list-style-type: none"> ➤ அற இலக்கியம் உணர்த்தும் வாழ்வியல் சிந்தனைகள் காலமாற்றத்தில் பெற்றுள்ள மதிப்புகளை அறியச் செய்தல். ➤ காலத்திற்கேற்ப உலகில், இந்தியாவில் தமிழ்நாட்டில் அறச்சிந்தனைகள் பெறும் இடத்தை மதிப்பிடுதல்.
				411-103 - தொல்காப்பியம் எழுத்ததிகாரம்	<ul style="list-style-type: none"> ➤ தமிழ் மொழியினைப் பிழையின்றி எழுதவும், கற்கவும் பேசவும் பயன்படுகிறது. ➤ தமிழ் மொழியியல் ஆராய்ச்சிக்கு எழுத்திலக்கணம் பயன்படுகிறது.
				411-104 - தமிழ் இலக்கியக் கொள்கைகள்	<ul style="list-style-type: none"> ➤ வரலாற்று அடிப்படையில் இலக்கியம் பற்றி ஆய்வு செய்ய, புரிந்து கொள்ள இலக்கியக் கொள்கை உதவும். காலந்தோறும் மாறும் இலக்கியக் கொள்கைகளை அறிவதால் அதன் வழி மாறிய சமூகத்தையும், இலக்கிய வளர்ச்சிகளையும் அறிய முடியும். ➤ இலக்கிய வகைகளை அறிந்திடவும், இலக்கியக் கொள்கையின் துணையுடன் மூலச் சான்றுகளைக்

		விளக்குதல்			கண்டறியவும் இப்பாடத்திட்டம் உதவும்.
		<ul style="list-style-type: none"> உலகச் செம்மொழிகளை அறிமுகப்படுத்துதல் தமிழர் கோயிற்கலை மரபுகளை எடுத்துரைத்தல். 		411-105 - தமிழக வரலாறும் பண்பாடும்	<ul style="list-style-type: none"> ஆய்வு நோக்கில் கூறப்பட்ட வரலாற்று நிலையை உணர்ந்து கற்கும் மாணவர் சமூகத்திற்கு எடுத்துச் சொல்லி தானும் சமூகமும் பயன்பட வாழ்வது.
				411-201- பக்தி இலக்கியங்கள்	<ul style="list-style-type: none"> கி. பி ஐந்தாம் நூற்றாண்டு தொடங்கி தற்காலம் வரையிலான தமிழ்ப் பக்தி இலக்கியங்களின் கோட்பாடு, கொள்கைகளை அறியச் செய்தல் பக்தி இலக்கியங்கள் வளர்த்த தமிழ், இசை மற்றும் வடிவங்களைத் தெரிந்து கொள்ளுதல்.
				411-202- பொது மொழியியல்	<ul style="list-style-type: none"> மொழியின் கூறுகளான ஒலியன், உருபன், தொடரன் போன்றவற்றை அறிதல். காலந்தோறும் மொழியியல் கூறுகளின் மாறும் தன்மை, நிலைபேறு போன்றவற்றை அறிதல்.
				411-203- தொல்காப்பியம் சொல்லதிகாரம்	<ul style="list-style-type: none"> தமிழ் மொழியின் சொல்லதிகாரத்தில் கூறப்பட்டுள்ள தொடரியல் கோட்பாடு மற்றும் சொல்லாக்கம் முயற்சியை வாழ்வியலில் பின்பற்றுவதற்கும் தற்கால நவீன அறிவியல் கண்டுபிடிப்புகளில் மென்பொருளை உருவாக்க பயனளிக்கும்.
				411-204- தமிழகக் கோயிற்கலைகள்	<ul style="list-style-type: none"> ஆன்மிகத்திற்கும், அறிவியலுக்குமான தொடர்பை அறிதல். திருக்கோயில்கள் தோற்றத்தால் உண்டான கலைவளர்ச்சி, மனித உளவியல் மாற்றங்கள், சமூக நிலைபாடு, மரபு சார்ந்த பழக்கவழக்கங்கள், பண்பாடுகள் போன்றவற்றை அறிதல்.
				அ.மு.வி.பா.-ஐ 411-701 - தமிழ் கற்றல்	-
				கற்பித்தல் நெறிகள்	

				411-702- நாட்டுப்புறவியல்	-
				சு.க.பா. - ஐ பாரிய திறந்தநிலை ஆன்லைன் பாடம் (MOOCS)	-
				411-301 – காப்பிய இலக்கியம்	<ul style="list-style-type: none"> ➤ காப்பியங்கள் தோன்றிய காலங்களில் வாழ்ந்த மக்களின் வாழ்வியலை அறியப் பயன்படுகிறது. ➤ காப்பியங்கள் சமய வளர்ச்சிக்குப் பயன்படுகிறது.
				411-302 – இலக்கணம் தொல்காப்பியம் - பொருளதிகாரம் (முன்னைந்து இயல்கள்)	<ul style="list-style-type: none"> ➤ தொல்காப்பியம் முன்னைந்து இயல்களில் படைப்புக் கோட்பாடுகள் அறிதல். ➤ தொல்காப்பியம் கூறும் வாழ்வின் பொருளையும், அவ்விலக்கணம் வழியாக அறியலாகும் சமூக நிலைப்பாடுகளையும் உணர்தல்.
				411-303 – சிறநிலக்கியங்கள்	<ul style="list-style-type: none"> ➤ தமிழில் சிறநிலக்கியங்கள் காலந்தோறும் சமூக வேற்றின அரசு தமிழரோடு ஒன்றுகலந்ததிலிருந்து தோன்றியது. இதன் வேற்றுமையைக் கண்டு தமிழர்களுக்குரிய மாந்தநேய வாழ்வியல் கொள்கையையும் இலக்கிய வடிவத்தையும் கண்டறிதல் இதன் பயன்.
				411-703 – ஊடகவி யல் (விருப்ப ப்பாடம்)	<ul style="list-style-type: none"> ➤ தகவல் சாதனங்களால் தகவல் தொடர்பும், தொடர்புகொள்ள காலமும் அதற்கான பொருளாதாரமும் பெற்றிருக்கும் இடத்தை அறிதல். ➤ ஊடகங்கள், சமூகத் தொடர்புச் சாதனங்கள் மக்கள் வாழ்க்கையில் ஏற்படுத்தியிருக்கும் தாக்கத்தை மாணவர்கள் அறிதல்.
				411-503 – தகவல் தொடர்பு ஆங்கிலம் (துறையிடைப்பாட ம்)	-

				411-401 – சங்க இலக்கியம்
				<ul style="list-style-type: none"> ➤ சங்ககால தமிழர் இலக்கியங்கள் இயற்கையோடு இயைந்து வாழ்ந்து மாந்தரின் இயல்புகளுக்கேற்ப அமைந்த சூழலைக் குறிப்பிடுகின்றன. இவற்றை இக்கால தமிழ்ச் சமூகம் உணர்ந்து சாதி சமய வேற்றுமையைக் களைந்து வாழ்வதற்கு சங்க இலக்கியக் கல்விப் பயனளிக்கும்.
				411-402 – இலக்கணம் தொல்காப்பியம் - பொருளதிகாரம் (பின்னான்கு இயல்கள்)
				<ul style="list-style-type: none"> ➤ தொல்காப்பியம் பின் நான்கு இயல்கள் கூறும் படைப்பிலக்கணக் கோட்பாடுகள் அறிதல். ➤ தொல்காப்பியம் உணர்த்தும் செய்யுள் இலக்கணவியல், அவ்விலக்கணம் சார்ந்த சமூக சூழல் ஆகியவற்றை உணர்தல்.
				411-403 – இலக்கியக் கொள்கைகளும் திறனாய்வும்
				<ul style="list-style-type: none"> ➤ வரலாற்று அடிப்படையில் இலக்கியம் பற்றி ஆய்வு செய்ய, புரிந்து கொள்ள இலக்கியக் கொள்கை உதவும். காலந்தோறும் மாறும் இலக்கியக் கொள்கைகளை அறிவதால் அதன் வழி மாறிய சமூகத்தையும், இலக்கிய வளர்ச்சிகளையும் அறிய முடியும். ➤ இலக்கிய வகைகளை அறிந்திடவும், இலக்கியக் கொள்கையின் துணையுடன் மூலச் சான்றுகளைக் கண்டறியவும் இப்பாடத்திட்டம் உதவும். ➤ இலக்கிய, இலக்கணங்களை திறனாய்வு செய்வதற்குப் பயன்படுகிறது. ➤ இலக்கியத் திறனாய்வில் திறனாய்வாளருக்குரிய தகுதிகளை வளர்த்துக் கொள்ளவதற்குப் பயன்படுகிறது.
				411-404 – ஒப்பீட்டு நோக்கில் உலகச் செம்மொழிகள்
				<ul style="list-style-type: none"> ➤ உலக மொழிகளுள் செம்மொழித் தகுதியுடைய மொழிகளின் தொன்மையையும், வரலாற்றையும், இலக்கியங்களையும், பாடுபொருள் விழுமியங்களையும் மாணவர்கள் அறிந்து கொள்ளுதல், ஒப்பீட்டு நோக்கில் உலகச் செம்மொழிகளின் பொதுமைக் கூறுகளை மாணவர்கள் அறிந்து கொள்ளுதல்.
				411-999 – ஆய்வேடு
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				(தமிழியல் தொடர்பான ஆய்வுகள்)	
2.	M.A. English	Students acquire the knowledge of socio, political and religious conditions of England and America and the rest of the world They also become capable of analysing literary works in relation to society, politics and history Students possess comprehensive knowledge of world literature. Learners attain the ability to delve deep into literary works and analyse them. They have the comprehensio	To impart knowledge to students about the socio, political and religious conditions of the world in general and England and America in particular. To make the learners well-versed in literature To enable the students to attain critical bent of mind To get them to understand literature is the manifestation of human life To make students develop creative ability and write poetry, short story and essays	British Literature I British Literature II Indian English Literature Advanced Grammar and Usage Journalism and Mass Communication British Literature III Shakespeare Literary Criticism I New Literatures Economics for Competitive Examination British Literature IV	Students will have exposure to the socio-political, religious and cultural conditions of Britain in 14th and 15th Centuries. Students will have exposure to the socio-political, religious and cultural conditions of Britain in 14th and 15th Centuries Students will learn the emergence of Indian Writing in English as a separate discipline on a par with British Literature. Students will have strong grounding in English Grammar Students will attain the eligibility to choose the Profession of Journalism. Students will have deep knowledge of English Literature from 1800BC-1850BC Students get exposed to the plays, ideas, Philosophy and Language of Shakespeare Exposure to the critical canons of Western Literature is provided for Students. Students acquire the knowledge of latest writings in the international literary domain. They also acquire the ability to analyse literary works by using critical approaches The students will be able to develop strong conceptual knowledge and develop analytical skills to excel in different competitive examinations. Gaining of knowledge by students about Modern English Literature -20th Century Literature.

		<p>n about the inseparable relationship between society and literature. They emerge as poets, short story writers and essayists and verbalise their original and creative ideas through their writings.</p>		<p>World Classics in English Translation</p> <p>Research Methodology and Modern Rhetoric</p> <p>Translation Studies</p> <p>Introduction to Gender Studies</p> <p>Literary Criticism II</p> <p>English Language Teaching</p> <p>Introduction to Linguistics</p> <p>American Literature</p> <p>Effective Communication and Soft Skills</p> <p>English for Competitive Examinations</p>	<p>Acquisition of knowledge by students about timeless world classics – Eastern and Western</p> <p>Learning of Research principles and Rhetoric Elements</p> <p>Students get accustomed to the theories and practices of Translation Studies.</p> <p>Learners get acquainted with feministic theories and the plight of women from ancient to modern.</p> <p>Gaining of knowledge by students about the latest theories and movements in the field of criticism.</p> <p>Learners acquire the knowledge of various methods of English Language Teaching.</p> <p>Students will have the knowledge of morphology, Phonology semantics and syntax of English Language and also traditional English grammar.</p> <p>Learners will acquire the knowledge of American Freedom struggle, Racial Issues and Emancipation of slaves and also American Literary movements.</p> <p>Students can understand the difference between formal and informal communication and also can write letters, resume and job application.</p> <p>Students will have strong grounding in English Grammar</p>
3	M.F.A Music	<p>Graduates to work in arts, culture and heritage roles and become professionals in cultural industries. The</p>		<p>426301 Theory of Music - I</p> <p>426302 Theory of Music - II</p>	<p>Most rare and critical compositions of Deekshidhar, tyagarajar such as Nava varnam, Kovoor Pancharathnam and Divya nama keerthenaigal. By learning these compositions in carnatic music are most valuable and worthwhile for the upcoming vocalist.</p> <p>Manodharma sageetham which is used to execute the creativity of the vocation in the concert. The most highlight one is RTP. Ragam thanam pollavi. This is able to judge the vocalist capacity in carnatic music.</p>

		programme is also an excellent foundation research.		426303 Practical - V	theory of silapathigaram which is influence in of carnatic music and also the detailed study of 108 thala's , thala's handled in thirupugal etc., then Biography of some rare authors such as sudhanandha bharadhiyar annamachaiyar venkatamahi ect.,
				426304 Practical - VI	Learning some important feature of south Indian music, specially carnatic music influenced in cinema some important mudhra's various composes which is a easy way to
				426305 Computer	Figuring and Powerpoint to understand and Learning this subject.
				426401 Research Methodology	A detailed study of research and purpose of research which contains some specific rules and reglations in right destination to handled the research title.
				426402 Music Concert	Gaining some valuable knowledge which helpful to the future research
				426999 Project	To get stage experience for students
				426404 Practical-VII	Most rare and critical compositions of Deekshidhar,tyagarajar such as Nava varnam,Kovoor Pancharathnam and Divya nama keerthenaigal By learning these compositions in carnatic music are most valuable and worthful for the upcoming vocalist.
4	M.F.A Bharathanat yam	Graduates to work in arts, culture and heritage roles and become professionals in cultural industries. The programme is also an excellent foundation		425301 Theory Of Bharathanatyam - I	Most Rare And Critical Compositions Of Deekshidhar,Tyagarajar Such As Nava Varnam,Kovoor Pancharathnam And Divya Nama Keerthenaigal By Learning These Compositions In Carnatic Music Are Most Valuable And Worthful For The Upcoming Vocalist.
				425302 Devotional	Manodharma Sageetham Which Is Used To Execute The Creativity Of The Vocation In The Cocert.The Most Heighlight One Is RTP.Ragam Thanam Pollavi.This Is Able To Judge The Vocalist Capacity In Carnatic Music.
				425303 Choreography	Learning Some Important Feature Of South Indian Music, Specially Carnatic Music Influenced In Cinema

		research.		And Nattuvangam	Some Important Mudhra's Various Composes Which Is A Easy Way To
				425304 Sabtha Tala Jathi	Learning some important feature in sabtha tala and jathi
				425305 Computer	Figuring And Powerpoint To Understand And Learning This Subject.
				425401 Research Methodology	A Detailed Study Of Research And Purpose Of Research Which Contains Some Specific Rules And Reglations In Right Destination To Handled The Research Title.
				425403 Dance Drama	Gaining Some Valuable Knowledge Which Helpful To The Future Research
				425999 Project	To Get Stage Experience For Students
5	M.P.A (Bharathana tyam)	Graduates to work in arts, culture and heritage roles and become professionals in cultural industries. The programme is also an excellent foundation research.		428101 History Of Bharathanatyam	Students Will Be Able To Know The Origin And Development Of Bharathanatyam
				428102 Abinaya In Bharathanatyam	Students Will Learn The Values And Methods Of Abinayas
				428103 Nritta	Students Will Learn The Basic Adavus , Hasthas , Charis And Bhedhas
				428104 Nritya	Students Can Enrich Their Knowledge In Abinaya Through Nritya
				428105 Practical -I Nritta And Nritya	Students Will Learn The Basic Adavus , Hasthas , Charis And Bhedhas,Abinayas
				428201 Natya	The Students Would Be Able To Understand The Subtle Nuances Of Expression And Movement
				428202 Indian Aesthetics	Students Will Be Able To Understand In Depth Of Bhava And Rasa
				428203 Folk Dances Of Tamilnadu	Students Will Able To Know The Culture And Art Form Of Folk People
				428204 Practical -2	Students Will Be Able To Understand In Depth Of Bhava And Rasa

6.	M.A. Gender Studies	Understand the importance of Gender Studies as an academic discipline, gain knowledge on gender developments models, Gender Empowerment Measures, feminist research and promote gender equality in the society	Realize the importance of women's studies as an academic discipline.	Introduction to Gender Studies	Realize the importance of Women's studies as an academic discipline. Familiarize with key issues, questions and debates in women and gender studies
			Understand the various feminist movement from grass root level to global level.	Feminist Movements	Reinforce the importance of feminist thought Promote knowledge on feminist movements
			Undertake research and action programmes to achieve gender equity in all sectors.	Feminist Research Methodology	Develop the ability to understand social science research Gain knowledge about the importance and uniqueness of feminist research methodology
			Promote knowledge on women's political participation on state, national and International level.	Gender and History	Improve general knowledge about the role and changing aspects of women through history Gain knowledge about the contribution of women towards nation building.
			.	Community Development	Acquire knowledge on rural and urban community development administration Understand the role of women in community development
				Life Skills Education	Realize the importance of life skills Education to be a successful person Gain Knowledge about the Application of Life Skills for Gender Development
				Feminist Theories	Gain knowledge about the various feminist thinkers Promote knowledge on feminist movements
				Gender and Governance	Promote knowledge on women's participation in public administration Increase awareness on legal provisions exclusive for women in Governance
				Gendering Citizens' Rights	Inculcate knowledge constitutional and legal rights of women Gain knowledge on various enforcement machineries for the welfare of women

				Women, Technology and Entrepreneurship	Gain knowledge on women and Entrepreneurship Understand the challenges faced by women in Technology
				Gender Analysis	Gain knowledge on Gender Analysis Framework Understand Gender Analysis Tools
				Civil Society Organisation	Understand the principles and practices of Civil Society Organization Gain knowledge about various international CSO Funding agencies.
				Gender Management System	Understand the concept of gender perspective and its application on policies, plans, programmes & projects Gain Knowledge on Gender Sensitive Indicators and Gender Action Plan.
				Gender and Health	Gain knowledge on the concept of health and the issues related to Gender and health Acquire information on National and International Initiatives in the promotion of Women Health
				Gender and Environment	Learn about the role of women in environment for sustainable development Understand environmental consciousness for sustainable development
				counselling	Gain knowledge on foundations of Counselling Understand theoretical approaches in Counselling.
				Gender and Development	Acquire knowledge on Empowerment Measures, Human and Gender Development Index. Aware about the State, National and International Enforcement Machineries on Women Empowerment
				Gender and Media	Gain knowledge on Mass Communication Enable the students to know about the presentation of gender in different Media
				Internship	Awareness programme and cultural activities should be conducted

				Project Report & Viva Voce	Gain in-depth knowledge about the activities and functions of society
				Introduction to Gender Studies	Gain knowledge on the status of women Familiarize with key issues, questions and debates in women and gender studies.
				Life Skills Education (NME)	Realize the importance of life skills education Gain knowledge about the application of life skills for gender development
7.	M.A. Integrated Home Science	Able the students with Oriented education in Home Science, to transform the role of students from job seekers to job providers, keeping in view the fast changing demands of the community.	Understand the concepts of food science, food chemistry and food microbiology. Acquire skills to undertake systematic research in the area of food science and nutrition.	தற்காலக் கவிதையும் உரைநடையும்	தற்கால இலக்கியங்கள் மற்றும் அடிப்படை இலக்கணம் பற்றி அறியமுடியும். கட்டுரைஎழுதும் திறன் மேம்படும்
				English For Enrichment-I	Can understand the prose works of great writers across the world. Can frame sentences in English.
				Principles of Food Science	Understand about Experimental Cookery on Healthy Foods Gain knowledge in the preparation of Healthy Foods
				Principles of Food Science (Practical)	Understand the basic principles and practices of cleaning and sanitation in food preparation. Know about the cooking methods, principles of menu planning and food presentation
				Basics of Textiles And Clothing	Get basic knowledge on basic textiles and manufacturing processing Gain in depth knowledge on cloths, fibres and yarn.
				Introduction To Gender Studies	Gain knowledge on gender studies and gender concepts Aware about the gender gap in education and work force participation
				இடைக்கால இலக்கியமும் சிறுகதையும்	இடைக்கால இலக்கியங்களை அறிய முடிகின்றது. சிறுகதைஎழுதும் திறன் மேம்படும்
				English For Enrichment-II	Can familiar with prose and poetry. Can write general English, resume and letters
				Principles Of Child	Understand the growth processes taking place from conception to Late childhood

				Development	Know about the development of children with special needs and rehabilitation
				Fabric Surface Ornamentation (Practical)	Assimilate with various Traditional embroidery types in India Understand the preparation for fabric surface embellishment
				Principles of Biochemistry	Understand the basic concepts in food biochemistry Know about the classification of macro nutrients and its enzymatic reactions
				Environmental Studies	Gain knowledge about Renewable and non-renewable resources Understand knowledge about Bio-diversity and its conservation
				காப்பியமும் புதினமும்	காப்பியங்கள், புதினங்கள் மற்றும் இலக்கணவகைகளை அறிய முடிகின்றது. கவிதைபடைக்கும் ஆற்றலைவளர்க்கிறது.
				English For Enrichment –III	Can familiar with short stories and one act plays of great writers. Can speak and write English without committing mistakes.
				Principles Of Nutrition	Know about major nutrients in food and the current trends in nutrition Understand the nutritional deficiencies and recommended dietary allowances to acquaint about nutritional requirement in special conditions
				Human Physiology	Understand the functions of the human organ system Gain knowledge on the common diseases and disorders
				Fashion Designing	Summarize the Design Process Describe the elements and Principles of design Discuss the fashion production process
				Fabric Analysis (Practical)	Aware about the fabric design and structure in woven and knitted fabrics Analyze the following fabric and draw design, draft and peg plan

				Garment Designing And Construction (Practical)	Design and construct the garments for different occasions and seasons Design and construct any type of garments including men's, women's and children's wear.
				பண்டைய இலக்கியமும் நாடகமும்	சங்க இலக்கியங்கள் மற்றும் நாடகம் பற்றி அறிய முடிகின்றது. நாடகம் படைக்கும் திறன் மேம்படும்.
				English For Enrichment – IV	Can acquaintance with the literary works of great writers. Can understand formal and informal communication.
				Community Nutrition	Aware about the nutritional problems and status in a community Gain knowledge on nutritional intervention programmes and acquire skill in Conducting Nutrition Education
				Public Health Nutrition	Gain knowledge about public health and nutrition familiar with the current concerns in public health nutrition
				Interior Design	Gain the basic knowledge on Interior design Aware about the New decorative design
				Food Processing & Preservation (Practical)	Familiarize with the potential use of various by products of food industry. Gain knowledge on basic principles and procedure in the production of important food product.
				Fundamentals of Apparel Designing (Practical)	Prepare the basic components for apparel constructions Prepare the sample for fullness, necklines, pockets ,yokes etc.,
				Clinical Nutrition	Aware about the digestion and absorption of carbohydrate, amino acid and lipids. Gain knowledge about Biochemical changes due to metabolic disorders

				Clinical Nutrition (Practical)	Enable the students to estimate the Blood Glucose, Total Protein, Serum Urea, Serum Creatinine, Cholesterol and Bilirubin in the given sample
				Food Microbiology	Gain knowledge on microorganisms and its identification in food Familiar with microbes in food, food borne diseases and food preservation
				Pattern Making (Practical)	Learn about draft and grade the patterns for sleeves, collars and yoke Gain knowledge on designing, drafting and grading basic apparel for children , women and men
				Fashion CAD and Portfolio (Practical)	Understand the trend analysis and fashion forecast Prepare the product based out of approved portfolio sketches using Fashion CAD Develop a technical specification – measurements, grading, pattern making, cutting & sewing of the portfolio garment
				Family Resource Management	Gain knowledge on family resource management Will gain knowledge about the basic principles of art in Interior decoration
				Genetically Modified and Organic Foods	Gain knowledge about the genetically modified and organic foods. Aware about genetic modification in Food industry and in Medicine
				Bakery & Confectionary	Gain the basic knowledge on bakery and confectionary Develop the skills on setting up the bakery and confectionery unit
				Home Based Catering	Gain the basic knowledge on Menu planning Develop the skills on Food Service Establishments
				Basics of Wet Processing	Summarize the Pretreatment process in wet processing Classify classes of dyes Describe the machineries used for fiber, yarn and fabric dyeing

				Training for Community Development	Become competent to frame and evaluate the sustainability of the training programme for community development
				Diet Therapy	Aware about the routine hospital diets and special feeding methods in therapeutic diet Understand the inborn errors of metabolism, food allergy and its diagnosis and treatment
				Diet Therapy Internship (Practical)	Gain knowledge about Appropriate Nutritional Care for Life Cycle Able to plan the therapeutic diets and compute the Nutritive value
				Extension Education in Home science	Gain the basic knowledge in Extension Education, Management and communication Adopt the various communication technologies for the extension
				Food Service Management	Gain Knowledge about Food Service Management Learn about the importance of food quality, sanitation and hygiene in food service unit
				Food Sanitation & Hygiene	Develop the skills in handling of Food in the Food Service and Preparation area.
				Regulations Of Food Product Development	Become competent in new food product development. Aware about regulatory aspects in product development and product commercialization
				Quality Management in Food Processing and Preservation	Gain knowledge on methods in food processing and preservation Understand the food quality assurance
				Fundamentals Of Tourism & Hospitality Management	Aware about the types of tourism, travel agent and tour operators Familiarize the students in hospitality management
				Office Automation	Gain the basic knowledge on Computer concepts Familiarize with the MS Office, MS Power Point, MS Access

				NGO and Corporate Social Responsibility	Gain knowledge on characteristics, structure and functions of NGO Aware about the role of CSR in improving the standard of living of the down.
A.	Specialisation – I: Nutrition and Dietetics	Able the students with Oriented education in Home Science, to transform the role of students from job seekers to job providers, keeping in view the fast changing demands of the community.	Able to develop community nutrition and nutrition education and functional food of nutritive value. Develop the ability to design research. Attain knowledge about macronutrients and its utilization	Advanced Food Science	Gain knowledge about the Functional Classification of Food Familiarize with the Nutritive value of Food
				Advanced Food Science (Practical)	Understand knowledge about Experimental Cookery on Healthy Foods Gain knowledge about the Formulation of Healthy Foods
				Community Nutrition and Education	Develop Competencies in Community Nutrition and Nutrition Education Familiar with Extension Media and communication for Rural Development
				Food Product Development and Marketing	Gain knowledge about Food Product Development and Marketing Understand the new Products Based on Special Dietary Requirements, Functionality, Convenience and Improvisation of Existing Traditional Indian Foods.
				Home Textiles	Gain the knowledge describes various types of home textiles and their manufacturing methods. Understand requirements of different home textiles Learn to understand various finishes and evaluation methods of home textile.
				Women and Society	Gain knowledge about the status of women in the society. Can set up their own NGOs for the development of women.
				Advanced Nutrition And Intermediary Metabolism	Know about the metabolic role of nutrients and their relationship to human health and wellbeing. Understand advanced nutrition.

				Therapeutic Nutrition	Gain Knowledge about Dietary Management and Therapeutic Nutrition
				Therapeutic Nutrition Internship	Plan the Diet for an Infant, Preschool Children, School Children, Adolescent Boys and Girls, Adult Men and Women, Old Aged Person and macro and micro deficiency diseases. Interpret the Patient Data and Diagnostic Tests
				Women and Health	Gain knowledge on the concept of health and the issues related to Gender and health Able to acquire information on National and International Initiatives in the promotion of Women Health.
				Food Service Management	Gain the Knowledge about Food Service Management Learn about Management of human and non human resources in food service management.
				Advanced Biochemistry	Gain knowledge about composition and function of blood, water and electrolyte. Know about the classification, Structure and properties of macro nutrients
				Food Microbiology	Gain knowledge on Microorganisms and its Identification in Food Aware about the prevention methods in contamination and spoilage of food
				Research Methodology And Statistical Analyses	Gain knowledge on types of Research and Able to develop a Research Proposal. Get familiar with various Statistical Tools used in the Research Methodology.
				Fabric Sourcing	Gain knowledge the fundamentals of Fabric sourcing methods and lead time Become familiar with different fabric clusters in India
				Functional Foods And Nutraceuticals	Gain knowledge on Natural occurrence of certain photochemical Understand about the Prebiotics, probiotics and symbiotics.

				Macro And Micro Nutrients	Attain knowledge about macronutrients and its utilization Understand knowledge about Micronutrients and its Utilization
				Nutrition Through Life Cycle	Aware about the growth, development and nutritional requirements in different stages of life cycle
				Computer Application in Nutrition and Dietetics (Practical)	Understand the Basics Knowledge in Computer Applications Gain knowledge about the Application of ICT in Food Science
				Project/Dissertation	They will gain in-depth knowledge about the research ethics.
B	Specialisation – II: Textiles & Clothing	Students gain basic knowledge on fashion technology, equipment used for wet processing, garment construction and fundamentals embroidery	Gain basic knowledge on Textiles and clothing, Apparel Merchandising in general. Find the various process in apparel industry and able to a run own industry.	Fashion And Clothing Psychology	Get basic knowledge on Fashion Psychology Through industry visit students get hands on experience in types of display Techniques.
				Care For Textiles And Clothing	Develop their knowledge on various types in Maintenance and Care of Textiles and Clothing. Expand their knowledge on various techniques adopted for Textile Care.
				Advanced Wet Processing	Gain knowledge on Pre-treatment process and equipments used in Wet Processing. Aware about the Dying Process Suitable for Different Fibres. Get familiar on types and Methods in Finishing Processes.
				Advanced Wet Processing(Practical)	Gain in depth knowledge on advanced technology of wet processing.
				Home Textiles	Gain the knowledge describes various types of home textiles and their manufacturing methods. Understand requirements of different home textiles Learn to understand various finishes and evaluation methods of home textile.

				Women And Society	Gain knowledge about the status of women in the society. Can set up their own NGOs for the development of women
				Apparel Merchandising	Gain basic knowledge on Apparel Merchandising in General. Get aware about the various processes in Apparel Industry and able to run own Industry. Get conscious about the Role of Merchandiser in Apparel Industry.
				Advanced Garment Construction	Gain knowledge on standardized body measurements used in Garment Construction Elevate knowledge on various pattern used in advanced Garment Construction Unit. Able to Design Draft and Sew Dresses for Themselves.
				Women And Health	Gain knowledge on the concept of health and the issues related to Gender and health Able to acquire information on National and International Initiatives in the promotion of Women Health
				Food Service Management	Gain the Knowledge about Food Service Management Learn about Management of human and non human resources in food service management
				Textile Testing And Quality Control	Gain knowledge on general aspects of Textiles Testing and Quality Control. Able to find the tests used to Identify various Textile Fiber Get aware about the Quality Control and color Fastness Tests in Textiles.
				Research Methodology And Statistical Analyses	Gain knowledge on types of Research and Able to develop a Research Proposal. Get familiar with various Statistical Tools used in the Research Methodology.

				Computer Application In Textiles And Clothing (Practical)	Able to create new fabric prints and new colour combinations Illustrate Apparel design with Photoshop and illustrator Create presentation board with Photoshop and illustrator
				Fabric Sourcing	Gain knowledge on the fundamentals of Fabric sourcing methods and lead time Become familiar with different fabric clusters in India Learn the procedure of importing textiles Learn the supply Chain Management system
				Functional Foods And Nutraceuticals	Gain knowledge on Natural occurrence of certain photochemical Understand about the Prebiotics, probiotics and symbiotics. Use the nanotechnology in functional food industry.
				Technical Textiles	Gain knowledge on textile materials in various technical areas. Able to find the quality evaluation in industrial areas
				Fashion Marketing	Students get familiar with Fashion Merchandising in General Students gain knowledge on different types in Fashion Merchandising Students become familiar with promotional activities of Government Organizations
				Portfolio Presentation (Practical)	Get aware about the importance of Portfolio Presentation and able to present their own Portfolio
				Dissertation	They will gain in depth knowledge about the research ethics.
8.	Master of Social Work	Demonstrate Ethical and Professional	Scientific knowledge about the dynamics of	Professional Social Work	The students will gain knowledge about the history and philosophy of social work and its emergence as a profession. The students will be aware of various methods and fields of professional social work practice.

		Behaviour	problems and issues in our society. • An ability to analyze the ideologies that lead to systematic domination and marginalization of vulnerable groups. • Necessary skills of awareness, skills aiming at empowerment of people and skills in culture sensitive methods of social change. • Ability to apply skills in social work practice and social work research in different fields for achieving desirable change,	Social Work with Individuals	The students will understand and apply the approaches and models of social case work practice in different settings. The students will adopt a multi-dimensional approach in assessment and intervention
		Engage Diversity and Difference in Practice		Social Work with Groups	The students will acquire constructive attitudes to society on its problems that are appropriate to the profession. The students will understand the social science perspective on Indian economics, psychology and political science.
		Advance Human Rights and Social, Economic, and Environmental Justice		Social Sciences for Social Work	The students will acquire constructive attitudes towards society on its problems that are appropriate to the profession. The students will understand the social science perspective on Indian economics, psychology and political science.
		Engage In Practice-informed Research and Research-informed Practice		Social Work With Children & Youth	The students will understand the psycho social, economic and cultural factors that influence the lives of children. The students will develop appropriate skills and strategies to effectively work with children in different settings
		Engage in Policy		Gandhian Social Work	The students will understand the principles and practices of Gandhi and their relevance in Social Work practice. The students will develop character and attitude to follow Gandhian values and responsibilities in their personal and social life.
				Social Entrepreneurship	The students will gain knowledge on social entrepreneurship The students will gain knowledge about setting up of social enterprise.
				Community Organization and	The students will gain knowledge on different dimensions of Community Organization and Social Action and its importance in Social Work.

		Practice	people. • Attitudes and values necessary	Social Action	The students will be equipped with the various techniques and skills of community organisation.
		Engage ,assess and intervene with	for working with people and organizations for	Social work Research and Statistics	The student will gain knowledge about the fundamental of ResearchMethodology The student will be able to conceptualise, formulate, and conduct simple research project.
		Individuals, Families, Groups, Organizations, and Communities	achieving the goals of the social work profession namely: • To enhance people’s capacity for social functioning. • To improve the quality of life for everyone;	Social Welfare Administration, Policies and Legislations	The students will be enriched with knowledge on various aspects of Social WelfareAdministration, Social policy. The students will gain ample knowledge on Social legislations
		Evaluate Practice with	• To promote social justice; • Provide opportunities for people to develop their capacities to become Participating and contributing citizen	Human Resource Management	Students will be enriched with knowledge abouthuman resources management Students willgain ample knowledge on the functions of Human Resource Planning.
		Individuals, Families, Groups, Organizations, and Communities		Counselling Theory and Practice	Students will be enriched with knowledge aboutcounselling, Skills, Techniquesand Types of Counselling. Students will learn counselling in various settings.
				Social Work With Families And Senior Citizens	The students will learn aboutthe theoreticaland conceptual frame work of family. The students will gain knowledge about the social work interventions for senior citizens.
				Professional Skills for Social Work Practice	The students will gain knowledge on Professional Skills for Social Work Practice. The students will gain knowledge about Social work interventions
				Rural community development	The students will gain knowledge about the role of various stakeholders in rural community and rural development The students will understand about the role and contribution of professional social work in the Developmental process.

				Health and Hygiene	The students will gain knowledge regarding the administration of the basic health infrastructure in the country The students will gain knowledge about the social work practice to health and hygiene situation in India.
				Industrial Relation and Trade Union	The students will gain knowledge on industrial relations and Treat Union. The students will understand about Employee Welfare and Social Security.
				Urban Community Development	The students will gain knowledge on the government and voluntary efforts towards urbandevelopment. The students will be equipped with specific skills and techniques of working with urbanCommunities.
				Mental health	The students will gain knowledge on various aspects of mental health. The students will understand about assessment of mental health disorder.
				Labour Welfare Legislation	The students will gain knowledge about the relevant of labour legislations. The students will gain knowledge regarding the analytical skills in the interpretations of legislations in the light of judgements
				NGO Management	The students will gain knowledge onNGO management. The students will gain knowledge on project planning and management process.
				Gender and Development	The students will gain knowledge onthe concepts of Women Development. The students will the issues and mechanism to safeguard women.
				Corporate Social Responsibility	The students will get familiarized with the knowledge of ethics,emerging trends in good corporate social responsibility in the global and Indian context. The students will be equipped with the legislations relating to CSR.

			Social Work for Persons with Disabilities	The students will gain knowledge on need for education, types and models for the disability. The students will gain knowledge on avenues of employment both in the organised and unorganised sector.
			Development Management	The students will gain knowledge on asset based community development The students will gain knowledge on professional social work trainees with innovative development management.
			Medical Social Work	Students will develop an in-depth understanding of social work process in medical setting. Students will gain knowledge on formal organization setup of hospitals and their services.
			Organizational Behaviour and Development	The students will gain necessary skills essential for the management of human behaviour in organizations. The students may have clear understanding on system approach as applied to human and organizational behaviour
			Environmental Social Work and Disaster Management	The students are enabled to understand the concepts of disaster management and social work introductions. The students will gain knowledge on Environmental Social Work and Environmental Development.
			Psychiatric Social Work	The students will be enriched with knowledge on provision of mental health services. The students will gain knowledge on Psychiatric Social Work practices.
			Human Resource Development	The students will be sensitized on the emerging trends in the field of HRD The students become familiarized with the principles of human resource development.
9.	M.A., Economics	The students will be able to understand the functions of key	Micro Economics – I	Students will be able to critically analyse and explain consumers', firms', and markets' behaviour using tools

		<p>economic instruments.</p> <p>The students will be able to use macro and micro economic models to explain the changes in real world economic analysis.</p> <p>The students will be able to apply econometric and statistical tools in economic analysis.</p> <p>The students will be able to acquire significant knowledge to face various competitive examinations.</p> <p>To provide in-depth understanding on the basic concepts and theories in various branches of economics;</p> <p>To provide details on the sectoral development of economy concerning India;</p> <p>To provide exposure to the national and international economic problems;</p> <p>To familiarize the important economic problems and concepts to the students;</p> <p>To facilitate the students to acquire skills in systematic evaluation and follow-up of economic projects.</p> <p>To prepare the students for competing for Indian Economic Services (IES), Economists position at RBI, NABARD, Planning Commission, Consultancy Organisations and other leading academic and research institutions.</p>		<p>and diagrams; assess the microeconomic theories and models in terms of their policy implications, advantages and limitations.</p>
			Macro Economics – I	Students will be able to describe full employment and price-level stability; analyse unemployment and inflation, explain the components of aggregate economic activity, fluctuations and effects for the national economy.
			Statistical Analysis	Students will be able to understand and apply descriptive and inferential statistical techniques using excel and SPSS to support economic decision making.
			Dynamics of Rural Development	On successful completion of the course, the student will be able to gain insight into the socio-economic structure of rural India and understand the prospects and problems of rural development programmes and role of non-governmental organisation in India.
			Computer Application for Data Analysis	By the completion of this course, the student will be able to gain comprehensive knowledge of creating, sending, receiving E-mails and attaching images or documents, MS-Word, MS-Power Point, MS-Excel and to compute NPV, BCR, IRR using SPSS.
			Micro Economics – II	The students will be able to understand micro economic theories on factor pricing, distribution, uncertainty, stochastic models and welfare theories and explore the real market situations.
			Macro Economics – II	Student will be able to understand macro economic theories, inflation and unemployment and contemporary perspectives on the role of government policy.
			Issues in Indian Economic Development	This enables the students to know about the development process in India since independence, understand the problems and measures in their contextual perspectives and analyse the current issues.
			Indian Financial Institutions and Markets	After completion of this course, the student will be able to understand the role and function of the financial system, evaluate and create strategies to promote

				financial products and services, the significance of foreign exchange market in reference to the macro economy.
			Econometrics	By the end of this course, the students will be able to interpret the results of an estimated model and conduct statistical inference to evaluate an economic model using statistical software.
			Economics for Competitive Examinations	The students will be able to develop strong conceptual knowledge and develop analytical skills to excel in different competitive examinations.
			Public Finance – I	On successful completion of this course, students will be able to demonstrate a good understanding of the fiscal framework, fiscal policy principles, taxation and policy choices, analysis of key issues and challenges in fiscal policy in a particular development or country context.
			Development Economics	The student will be able to demonstrate about inequalities between rich and poor countries, per capita income, economic growth, poverty and inequality, understand the major growth theories, models of planning and policy and demonstrate the familiarity with the issues of economic development.
			Research Methodology	The students will be in a position to design and execute research plans using appropriate methodologies in conducting primary and secondary data based studies.
			International Economics - I	By the completion of this course, the students will be able to understand the theories of international trade, gross gains from trade and differentiate standard, classical and orthodox trade theories.
			Mathematics for Economic Analysis	On successful completion of this course, students will be able to understand the mathematical knowledge and expertise to the problems of economics.
			Statistics for Decision Making	At the end of this course, the students from other than economics disciplines will be able to get a comprehensive knowledge in descriptive statistics, probability and inferential statistics which are most

					commonly used for decision making.
				Monetary Economics	Students will be able to explain major monetary theories, the main channels of monetary transmission mechanism, develop understanding of money market, capital market and their real effects on the economy.
				Agricultural Economics	Student will be able to understand the interdependence between agriculture and industry, the concepts like productivity, production function analysis, marketable surplus, marketed surplus and instrument of agriculture price policy, WTO and agricultural exports.
				Public Finance – II	The students will receive a conceptual clarity on spending, taxing and financing activities of the government and a thorough grounding on the principles underlying the role of the state and centre financial relations.
				International Economics - II	The students will be able to familiarise the major models of international trade, differentiate in terms of their assumptions and implications, critically analyse the relevance of terms of trade and usage of appropriate measures to correct the BOP and trade reforms.
10.	M.A., (History)	Students will be able to demonstrate broad knowledge of historical events and periods and their significance.	Students will be able to deploy skills of critical analysis and formulating persuasive arguments	Indian Civilisation And Culture Upto 1206 CE	<ul style="list-style-type: none"> ➤ Identify pre-historic sites, tools, monuments and sculptures of various dynasties. ➤ Make a comparative study of Harappan culture and Vedic culture.
				2.Socio-Economic And Cultural History Of India From 1206 To 1526 CE	<ul style="list-style-type: none"> ➤ Knowledge of political transformations in medieval India is visible ➤ Capable of the analysing the theory of theocratic state in the medieval India
				3.State And Society In Mughal India From 1526 To 1707 CE	<ul style="list-style-type: none"> ➤ To know the origin and foundation of Mughal empire in India. ➤ To explain the qualities that made Babur and Akbar the great successful emperors.

				4.Socio-Cultural History of Tamil Nadu From Sangam Age To 1800 CE	<ul style="list-style-type: none"> ➤ Highlight the significance of the Sangam literature ➤ Acquires Knowledge on political process in the given period of history is displayed.
				5.Art And Architecture of South India	<ul style="list-style-type: none"> ➤ Acquire knowledge on the development of South India Temple Architecture from Sangam Age ➤ Obtain knowledge on the various Style of Art and Architecture in South India
				6.Human Rights	<ul style="list-style-type: none"> ➤ Acquire knowledge of Human Rights. ➤ Obtain the knowledge of various legal system in Indian
				7.History of World Civilisations (Excluding India)	<ul style="list-style-type: none"> ➤ Learning about the history of the world civilisation enables a person to understand the ancient origins and how relevant they are to current issues. ➤ Understanding intriguing patterns of world's civilization
				8.Socio-Cultural History Of TamilNadu From 1800 To 1967 CE	<ul style="list-style-type: none"> ➤ Acquire knowledge of the British rule in Tamil Nadu. ➤ Know the freedom fighters of Tamil Nadu.
				9.History of Modern India From 1707 To 1885 CE	<ul style="list-style-type: none"> ➤ Analyze the factors and wars which pave way for influence of British in petty states. Know the details of various acts and regulations to control India and it changed as British India. ➤ Interpret the effects and impacts of British rule in economic conditions and implements of technology for perfect administration.
				10.Archaeology: Principles And Methods	<ul style="list-style-type: none"> ➤ To know the significant of Archaeology ➤ To understand the relations between Science and Archaeology
				11.Tourism And Travel	<ul style="list-style-type: none"> ➤ To know the origin and development of culture, and form of cultural tourism in India.

				Management	<ul style="list-style-type: none"> ➤ To understand the role of culture and pilgrimages in growth of tourism
				12.Indian National Movement From 1885 To 1947 CE	<ul style="list-style-type: none"> ➤ Examining the rise of National leaders and Nationalism. ➤ Understanding and analyzing the role of moderates and extremist in during Indian National Movement.
				13.History Of Europe From 1453 To 1789 CE	<ul style="list-style-type: none"> ➤ Analyzing the reasons behind the fall of Eastern Roman Empire and the effects of the fall of Constantinople and to know new geographical discoveries made by various navigators through new explorations through sea routes. ➤ Analyzing the various factors led to Commercial Revolution in Western Europe and its impact on Western society and to know the Historical importance of Renaissance , Reformation movements and invention of new materials and its impact around Europe and to various countries.
				14.Historiography	<ul style="list-style-type: none"> ➤ Exposing students to the writings of history from ancient to the modern times. ➤ Enabling the students of history become aware of renowned historians and their contributions to historical developments.
				15.History Of Science And Technology	<ul style="list-style-type: none"> ➤ Know the origin, form and development of science, character of science and it nature. ➤ Understand the origin and progress of science in Greek and Rome, implement of Scientific methods for livelihood and cultural development and to analysis transformation of science from belief to practical process, change of minds of people and make perfect use of science.
				16.Indian Polity And The Constitution	<ul style="list-style-type: none"> ➤ Know the Historical background of Making of the Indian Constitution. ➤ Understand about Principal Organs of the Union Government.

				17. Contemporary India	<ul style="list-style-type: none"> ➤ To know and analyze the development of India after independence. ➤ To understand various components, system of the nation and the form they had taken in past
				18. International Relations And India In The World Politics	<ul style="list-style-type: none"> ➤ Obtain the knowledge of theories of international Politics and various approaches ➤ Acquire the knowledge of National Interest on Ideologies
				19. Historical Research: Approaches And Methods	<ul style="list-style-type: none"> ➤ Highlight the major trends in the development of historical writing with a focus on Prominent Historians. ➤ Examine the emergence of History as a professional discipline in the Nineteenth century.
11.	M.Lib.I.Sc	1. Apply the field's foundational theories, principles, values, ethics, and skills to everyday practice. 2. Critique and synthesize research and identify appropriate research methodologies to solve problems in the field. 3. Analyze and engage in the	1. To impart high level skills and training necessary for those aspiring to hold higher positions in library and information centres within the country and abroad 2. To prepare the library and information professionals for the changing scenario 3. To get the learners familiarized with the basic concepts of information and its communication in society;	Foundations of Library and Information Science	Understand the historical development and role of libraries
				Information and Reference Sources	Utilize automated techniques and technologies to locate scholarly sources;
				Knowledge Organization & Information Retrieval (Theory)	Comprehend the analysis of subject content organizing documents and ideas
				Knowledge Organisation (Classification Practice – I: DDC and CC)	Comprehend the salient features of the classification schemes
				Information and Communication Technology (Theory)	Familiarize the students with main theories and conceptual frameworks in the field of ICT for development
				Academic Library System	Comprehend the resources, services and management issues pertaining to academic libraries

	<p>changing cultural, educational, and social roles and responsibilities of librarians/information professionals and the environments they work in within the global society. 4. Identify and evaluate systems and technologies in order to implement improvements and innovations relevant to a particular information context. 5. Identify needs and connect individuals and communities with information</p>	<p>4. To teach information processing techniques and develop capability in retrieving information efficiently by applying different search techniques; 5. To get the students acquainted with the activities and services of different information systems and introduce them to packaging and consolidation techniques; 6. To impart ICT based skills using open source software in order to make them serve competently in an automated and networked environment; and 7. To introduce modern tools and techniques to students to manage Libraries and Information Centres effectively.</p>	Management of Libraries and Information Centres	appreciate the management techniques useful to Library and Information centres
			Information Systems and Services	Understand the program and activities of global and national information systems
			Knowledge Organization (Cataloguing and Metadata Practice – II)	Comprehend the skills in cataloguing of books and non-book material
			Information Technology – Practice	Comprehend the use of library software, CD and Internet Search
			Marketing of Information Products and Services	Define the basic vocabulary appropriate to the field of marketing
			Library Automation - Theory	Comprehend the concept of library automation and implementation in libraries
			Library Automation and Digital Library - Practice	Understand the use of library automation software
			Research Methods and Technology	Understand the role and importance of research in Library and Information Science
			Digital Libraries and Web Technology	Understand the use of Library Management software in libraries of various section
			Academic Library System	Understand the basic concepts related to academic library systems and services
Knowledge Management	Understand the knowledge of major design tools for e-publishing			

		that engages and empowers them.		Informetrics	Understand the historical development and meaning of metric studies
				Internship	Know what a digital library is and how to design and develop it
				Project	Understand the application of new ICT in academic library management
				Corporate Libraries and Information Centres	Understand the different activities of corporate libraries
12.	M.A. Public Administration	<ul style="list-style-type: none"> • Able to demonstrate broader understanding of Public Administration Theory and Practice and its Application in Public Services • Able to prepare for career in teaching and research in the field of Public Administration and Policy. 	<ul style="list-style-type: none"> • Able to understand the governance of the large scale public organizations in various socio-economic and political settings • Gain strong foundation in theoretical and practical dimension of Public Administration in order to promote values and ethics in public service. • Gain knowledge in research methodology and its application in order to understand the problems relevant to the governance 	Principles of Public Administration	<ul style="list-style-type: none"> • Students could gain knowledge about administrative principles, behaviour, evolution and growth of Public Administration
				Administrative Thought	<ul style="list-style-type: none"> • Students could understand various administrative thinkers' contribution and its application in the field of Public Administration.
				Indian Constitution	<ul style="list-style-type: none"> • Students gain knowledge in understanding the features of the Indian Constitution and its functioning.
				Indian Administration	<ul style="list-style-type: none"> • Students would gain knowledge in functioning of Indian Administration •
				A. Human Rights Administration in India (Elective)	<ul style="list-style-type: none"> • Students would gain awareness of human rights institutions and its enforcement.
				B. E-Governance (Elective)	<ul style="list-style-type: none"> • Students would gain knowledge in E-governance and its initiatives in public service delivery system..
				Modern Administrative System	<ul style="list-style-type: none"> • The students would gain knowledge and conceptual clarity of various approaches and models of comparative public administration.
				Public Personnel Administration	<ul style="list-style-type: none"> • The student would gain knowledge in human resource management of public administration.
				Local Self Government	<ul style="list-style-type: none"> • The Student would gain knowledge of governance at grass root level.

			of a country.	Administration in India	
			• Able to understand and analyze the policies and programmes associated with the governance of a country and make pertinent recommendations	A. Public Relations Management	• The student would gain detailed knowledge of the public relations management in large scale government organizations.
				B. Social Welfare Administration in India	• The student would gain specific knowledge in issues and challenges of social welfare administration.
				Public Financial Administration	• Students would acquire knowledge in the field of public finance and its accountability
				Development Administration	• Students would gain theoretical and practical knowledge of Development Administration
				Research Methodology	• Students would acquire comprehensive knowledge in the area of research methodology and its application in public administration.
				A. Disaster Management and Mitigation	• Students would gain knowledge and understanding on disaster preparedness and mitigation
				B. Administration of Public Enterprises	• Students would gain knowledge of Public Enterprises and its impact in the context of Liberalization, Privatization and Globalization
				Administrative Law	• The students could gain knowledge of natural justice, administrative law and adjudication
				Public Policy Analysis	• The students would understand and gain knowledge in the field of public policy making analysis and evaluation
				Citizen Centric Governance	• The students would acquire knowledge in service delivery mechanism and its rights.
				Dissertation	• Enable the students to gain practical knowledge in order to prepare a good research report.

				Indian Public Administration For Civil Services	<ul style="list-style-type: none"> The student would acquire broader knowledge in Indian public administration in order to get success in various competitive examinations.
				Introduction to Public Administration	<ul style="list-style-type: none"> The student would gain knowledge about concepts, theories and principles of public administration in order to train up for civil service examinations.
13.	M.A Journalism and Mass Communication	One who Completion of this Course who will become a 1. Full-fledged Journalist. 2. Full fledged Film Director 3. Competent Reporter and Media Person 4. Full fledged Video editor	One who Completion of this Course who will become a 1. Full fledged Journalist with Various Capacities 2. Multi Talented film Director 3. Well verse in Reporting 4. Well verse in Video Editing	Introduction to Journalism & Mass Communication	1. Make the Learners to knowing the Journalism and Mass Communication and its various perspectives
				Evolution of Media	1. Make the Learners to know the various Evolution of Media and its various importance
				Reporting & Editing	1.Students will be able to familiarize themselves with the basics and different types of Reporting and Editing. 2.Students will be able to develop the general understanding of art culture, sports and crime reporting. 3.Students will be able to create understanding about the dummy, printing, layout and Journalism as a Profession.
				Practical I – Editorial practice	1. Make the Learners competent in Content Editing
				Practical II - Photography	The students acquire the practical knowledge and they make use of their skill to capture good pictures.
				Advertising and Public Relations	1.Students will be able to know about the role and importance of advertising in media. 2.Learners would know about the advertising agencies and industries along with its functioning. 3.Students would gain knowledge about the tools, public relations, writing and the basic ethics and laws of public relations.
				Theories and Models of	1.Learner will gain basic understanding about the growth and evolution of Mass Communication and also the concept of theories of Communication.

				Communication	<p>2.Learners will have the basic knowledge of alternative approaches to development and the models of Communication.</p> <p>3.Students will be able to acquaint themselves in learning the mass effects and uses.</p>
				Graphic Communication	<p>Students will learn about the basic design principles to present ideas, information, products and services in a creative visual manner.</p> <p>Students will be able to acquaint the fundamental, technical skills, knowledge and abilities in graphic design.</p> <p>Students will gain knowledge about relevant applications of tools and technology in the creation and confidently participate in professional design.</p>
				Practical III– Graphic Design	<p>1.This helps the students to learn the softwares for the design</p> <p>2.It enables the students to grab the opportunity in leading graphic design oragnisation</p>
				Practical IV- Writing For Media	<p>1.This helps the students to gain knowledge on social media writing.</p> <p>2.It creates an opportunity for the students to write story for films.</p>
				Communication Research Methods	<p>1.Students will learn the definitions, basic concepts of research, communication research, need, role importance, functions and ethics of research.</p> <p>2.Students will learn about the concept of each element of research, interrelation between elements and various types of research.</p> <p>3.Learners will gain knowledge about the preparation of tools for data collection, choosing samples, etc.,</p>
				Communication For Social Change	<p>1.Students will develop knowledge about the meaning, concept, process, models and role of media in development communication.</p> <p>2.Students will learn about the increase in</p>

					<p>development support communication population and agricultural extension.</p> <p>3.Students will enhance their knowledge about agricultural communication and rural development and model of agricultural extension.</p>
				New Media Communication	<p>1.Students will gain hands on experience in emerging digital technologies.</p> <p>2.Students will be able to recognize security and ethical challenges in online journalism.</p> <p>3.Learners will inculcate themselves in learning different web pages, networks and protocols of internet and know about cyber Journalism.</p>
				Audio – Visual Production	<p>1.Students will be able to learn about the concept of visual language and be aware about elements of sound.</p> <p>2.Students will gain hands on experience about the lighting introduction.</p> <p>3.Students will be able to develop their knowledge in elements of video.</p>
				Practical - V Audio Visual Production	It helps the students to gain knowledge on both, the Indoor and outdoor production areas
				Media Laws & Ethics	<p>1.Learners will learn about constitution of India, principles of media law and fundamental rights.</p> <p>2.Students will be able to familiarize themselves about the freedom their rights and the press laws in India.</p> <p>3.Learner will know about the importance of directive principles of State policy, parliamentary privileges, press commission, RTI and Wageboard Act.</p>
				Practical VI – New Media Communication	<p>1.To make the students to understand the role of Socail Media Campaign and make them to get involved</p> <p>2.To make the students understand Web-3.Designing and also helps to learn the tools of online Journalism.</p> <p>4.It also helps to make the students to write in Linear and Non-Linear.</p>

14.	M.Sc. Mathematics	<p>Students can have the ability to write their own proof techniques for theorems, propositions with proper terminology and notations.</p> <p>A student will be able to solve or approach complex problems in the field of Mathematics and they will apply the results to real life application problems.</p> <p>They will provide specific</p>	<p>With the acquired knowledge from the basics of Mathematics, students can be able to work or admit themselves to do research in the field of Applied Mathematics and also they will solve the problems that are facing in the industry and in real life situations. This will build a very good relationship between industry and Mathematicians.</p>	<p>Groups & Rings</p> <p>Real Analysis-1</p> <p>Differential Equations</p>	<p>Understand the concepts of Groups, Normal subgroups and quotient groups. Explain the concepts of Homomorphism, Automorphism on groups and Permutation groups. Analyze basic concepts about Rings, Ideals and quotient rings. Demonstrate examples of Euclidean rings, Polynomial rings, Polynomial rings over Commutative rings.</p> <p>Define and recognize the basic properties of the field of real numbers. Improve and outline the logical thinking. define and recognize the series of real numbers and convergence shown the ability of working independently and with groups. Define and recognize Bolzano- Weirstrass theorem. Ability to apply the theorem in a correct mathematical way. Demonstrate an understanding of limits and how they are used in sequences, series, differentiation and integration. Appreciate how abstract ideas and rigorous methods in mathematical analysis can be applied to important practical problems.</p> <p>apply the fundamental concepts of Ordinary Differential Equations and Partial Differential Equations and the basic numerical methods for their resolution. solve the problems choosing the most suitable method. understand the difficulty of solving problems</p>
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		<p>examples of connections among various branches of Mathematics such as Algebra, Analysis and Differential Equations.</p> <p>Students project writing skills will motivate them to do research studies (PhD) in the field of Mathematics.</p>			<p>analytically and need to use Numerical approximations for their resolution and use computational tools to solve problems and applications of Ordinary Differential Equations and Partial Differential Equations. Formulate and solve differential equation problems in the field of Industrial Organization and Engineering. use an adequate scientific language to formulate the basic concepts of the course</p>
				<p>Analytic Number Theory</p>	<p>Analyze and prove results presented in analytic number theory. Prove results similar to the ones presented in the course and apply the basic techniques, results and concepts of the course to concrete examples and exercises. Understand the interdisciplinary nature with other mathematical branches. Understand theoretical physics and Combinatorics with the knowledge of partition theory.</p>
				<p>Object oriented programming and C++</p>	<p>Understand object oriented programming and advanced C++ concepts. Be able to explain the difference between object oriented programming and procedural programming. Be able to program using more advanced C++ features such as composition of objects, operator overloads, dynamic memory allocation, inheritance and polymorphism, file I/O, exception handling, etc. Be able to build C++ classes using appropriate encapsulation and design principles. Be able to apply object oriented or non-object</p>

					oriented techniques to solve bigger computing problems
				Linear Algebra	Assign a dimension to certain vector spaces and illustrate example of vector space and subspaces Access properties implied by Linear transformations, Linear Functional, Double Dual. Classify and determine the polynomial ideals and prime factorization of a polynomial Define, illustrate and apply the concepts of determinant function and per-mutations Analyze and demonstrate examples of rational and Jordan function
				Real Analysis-II	Define and recognize the series of real numbers and convergence shown the ability of working independently and with groups. Define and recognize Bolzano- weistrass theorem. Ability to apply the theorem in a correct mathematical way.
				Complex Analysis	Apply the fundamental concepts of complex numbers and variables. Solve the problem using Cauchy's integral formula and Cauchy's residue theorem, residue theorem. Formulate and solve differential equation problem in the field of industrial organization engineering.
				Mechanics	Have a deep understanding of Newton's laws. solve the Newton equations for simple configurations using various method, Understand the foundations of chaotic motion.
				Topology	Define and illustrate the concept of topological spaces and continuous functions. Define and illustrate the concept of product

				<p>topology and quotient topology,</p> <p>Prove a selection of theorems concerning topological spaces, continuous functions, product topologies, and quotient topologies.</p> <p>Define and illustrate the concepts of the separation axioms.</p> <p>Define connectedness and compactness, and prove a selection of related theorems, and describe different examples distinguishing general, geometric, and algebraic topology.</p>
				<p>Optimization Techniques</p> <p>Understand the theory of optimization methods and algorithms developed for solving various types of optimization problems. Understand and apply the concept of optimality criteria for various type of optimization problems.</p> <p>Solve various constrained and unconstrained problems in single variable as well as multivariable apply the methods of optimization in real life situation</p> <p>develop and promote research interest in applying optimization techniques in various problems.</p>
				<p>Multivariate Calculus</p> <p>Possess the basic knowledge about stochastic processes in the time domain.</p> <p>Acquire more detailed knowledge about Markov processes with a discrete state space, including Markov chains, poisson processes & birth and death processes.</p> <p>Know about queuing systems and Brownian motion, in addition to mastering the fundamental principles of</p>

					<p>simulation of stochastic processes and the construction of Monte carol (MCMC) algorithms’.</p> <p>Formulate simple stochastic process models in the time domain and provide qualitative and quantitative analysis of such models.</p>
				Image processing and Pattern Recognition	<p>Know the foundational techniques of image processing and analysis such as filtering, segmentation and local features.</p> <p>Build a statistical classifier and know how to use other classifiers.</p> <p>Use image processing and pattern recognition techniques to detect objects and activities in images and video.</p> <p>Collaborate with team members to design a solution.</p> <p>use Matlab to develop scripts in these areas</p>
				Functional Analysis	<p>Describe the properties of normed linear spaces and construct examples of such spaces.</p> <p>Extend basic notions from calculus to metric spaces and normed vector spaces.</p> <p>State and prove theorems about finite dimensionality in normed vector spaces.</p> <p>State and prove the Cauchy-Swartz Inequality and apply it to the derivation of other inequalities.</p> <p>Prove that a given space is a Hilbert spaces or a Banach Spaces.</p> <p>describe the dual of a normed linear space</p> <p>Describe the properties of normed linear spaces and construct examples of such spaces.</p>

				Probability and Statistics	<p>Know the basic probability axioms, rules and the moments of discrete and continuous random variables as well as be familiar with common named discrete and continuous random variables.</p> <p>Derive the probability density function of transformations of random variables and use these techniques to generate data from various distributions.</p> <p>calculate probabilities, and derive the marginal and conditional distributions of bivariate random variables.</p> <p>Know distributions of sample mean and variance and central limit</p>
				Graph Theory	<p>Understand the basic concepts of graphs, directed graphs, and weighted graphs and able to present a graph by matrices.</p> <p>Understand the properties of trees and able to find a minimal spanning tree for a given weighted graph.</p> <p>Understand Eulerian and Hamiltonian graphs</p>
				Project & Viva - Voce	<p>The aim of the project is to test the independent research skills students have acquired during their time at university, with the assessment used to help determine their final grade</p>
15.	M.Sc Physics & M.Phil	The Master of Science in Physics programme provides the candidate with knowledge, general competence,	<p>Knowledge</p> <p>The candidate</p> <ul style="list-style-type: none"> • has substantial knowledge in physics, basic knowledge in mathematics, and 	CLASSICAL MECHANICS	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Explain clearly the notion of degrees of freedom and identify them for a given mechanical system • Explain clearly the notion of degrees of phase space

		<p>and analytical skills on an advanced level, needed in industry, consultancy, education, research, or public administration .</p> <p>The work with the Master Thesis gives special expertise within one of the research areas represented at The Department of Physics: Crystal Growth, Solid State Ionics, Energy, and Thin Film Physics.</p>	<p>knowledge in supported fields like computer science.</p> <ul style="list-style-type: none"> • has some research experience within a specific field of physics, through a supervised project (the Master Thesis). • has advanced knowledge in some areas in physics. • is familiar with contemporary research within various fields of physics. <p>Skills</p> <p>The candidate</p> <ul style="list-style-type: none"> • has the background and experience required to model, analyse, and solve advanced problems in physics. • is able to apply 		<p>Demonstrate an understanding of intermediate classical mechanics topics such as coordinate transformations, oscillatory motion, gravitation and other central forces, and Lagrangian mechanics</p>
				MATHEMATICAL PHYSICS – I	<p>On successful completion of the course, a student will be able to</p> <p>Master the basic elements of mathematical physics and demonstrate an ability to use vector analysis, matrices and special functions in the solution of physical problems</p>
				LINEAR AND INTEGRATED ELECTRONICS	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Discuss the op-amp’s basic construction, characteristics, parameter limitations, various configurations and countless applications of op-amp • Analyze and design basic op-amp circuits, particularly various linear and non-linear circuits, active filters, signal generators, and data converters
				ELEMENTARY NUMERICAL ANALYSIS	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Create and solve mathematical models of physical phenomena using numerical methods
				ADVANCED ELECTRONICS LABORATORY	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Understand the basic operations in electronic

			<p>advanced theoretical and/or experimental methods, including the use of numerical methods and simulations.</p> <ul style="list-style-type: none"> • can combine and use knowledge from several disciplines. • can critically and independently assess and evaluate research methods and results. • has the ability to develop and renew scientific competence -- independently, via courses or through PhD studies in physics or related disciplines. • is able to enter new problem areas that require an analytic and innovative approach. • can disseminate subject matter and results to both 		<p>circuits</p> <ul style="list-style-type: none"> • Develop the programming skills of Microprocessor • Understand the concept of ICs manufacturing • Appreciate the applications of Microprocessor programming
				<p>QUANTUM MECHANICS-I</p>	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Know the background for the main features in the historical development of quantum mechanics • Be able to discuss and interpret experiments displaying wavelike behaviour of matter, and how this motivates the need to replace classical mechanics by a wave equation of motion for matter (the Schrödinger equation) • Understand the central concepts and principles of quantum mechanics: the Schrödinger equation, the wave function and its physical interpretation, stationary and non-stationary states, time evolution and expectation values
				<p>MATHEMATICAL PHYSICS – II</p>	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Create and solve mathematical models of physical phenomena using analytic and numerical methods • Design, execute, and interpret experiments to test hypotheses and mathematical models

		<p>specialists and a broader audience.</p> <p>General competence</p> <p>The candidate</p> <ul style="list-style-type: none"> • understands the role of physics in society and has the background to consider ethical problems. • knows the historical development of physics, its possibilities and limitations, and understands the value of lifelong learning. • is able to gather, assess, and make use of new information. • has the ability to successfully carry out advanced tasks and projects, both independently and in collaboration with others, and also across disciplines. • has an adequate 	<p>ELECTROMAGNETIC THEORY</p>	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Describe the electro and magnetostatics Maxwell's equations and propagation of EM waves • Describe the reflection, refraction, dispersion and scattering of electromagnetic waves
			<p>THERMODYNAMICS AND STATISTICAL MECHANICS</p>	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Give a general background to thermodynamics and statistical mechanics
			<p>MOLECULAR SPECTROSCOPY</p>	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Appreciate the principles of spectroscopy in the different regions of the electromagnetic spectrum • Apply the concepts of group theory to molecular vibrations • Relate the theory of spectroscopy to the study of molecular structure
			<p>QUANTUM MECHANICS-II</p>	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Apply principles of quantum mechanics to calculate observables on known wave functions • Grasp the concepts of spin and angular momentum, as well as their quantization- and addition rules • Explain physical properties of elementary

			background for pursuing pedagogic education.		particles, nucleons, atoms, molecules and solids (band structure) based on quantum mechanics
			• has an international perspective on her/his discipline.	MICROPROCESSOR & ELECTRONIC INSTRUMENTATION	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Develop the programming skills of microprocessor • Appreciate the applications of microcontroller programming
				BASIC CONCEPTS OF INSTRUMENTATION	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Understand and describe the fundamental principles behind the methods of instrumentation which are included in the curriculum • Analyze, interpret and present observations from the different methods • Evaluate the uncertainty of observations and results from the different methods • Assess which methods of instrumentation are appropriate for different material problems • Cooperate on a common project, and within time limits present a written report and oral presentation
				ADVANCED PHYSICS LAB	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Understand the basic principles of the

					<p>experiments</p> <ul style="list-style-type: none"> • Understand simple concepts to demonstrate an experiment
				CONDENSED MATTER PHYSICS	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Calculate reciprocal lattice vectors for typical high symmetrical crystals and the relationship between Miller indices (hkl) and the distance between the lattice plains is to be understood • Energy band structure should be explained in terms of the periodic potential and illustrated by using Kronig-Penny model • Classification into metals, semiconductors and insulators anchored in the energy band structure
				NUCLEAR AND PARTICLE PHYSICS	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Identify the fundamental models of nuclear structure that are used to describe various modes of nuclear excitation • Lay out the foundation that allows interpreting the observations obtained in typical nuclear structure experiments
				MATERIALS SCIENCE	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Obtain the basis for understanding the link between different processing techniques and the characteristics of materials

					<ul style="list-style-type: none"> • Provide insight into some of the steps in the production of semiconductor devices • Provide an introduction to experimental methods that are used in parts of materials science
				DIGITAL ELECTRONICS PRINCIPLES	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Understand basic principles of the techniques presented in the course, their advantages and limitations • Understand the requirements for discrete components suitable for each different applications • Perform simple and routine operations on the hands on experiments
				SKILL DEVELOPMENT	<p>On successful completion of the course, a student will be able to</p> <ul style="list-style-type: none"> • Use a set of fundamental physics ideas in a day to day life activities • Learn to use physics ideas for variety of society applications
16.	M.Sc. Chemistry	i)Develop the skill set necessary to continue on to higher studies such as M.Phil and Ph.D. in Chemistry.	i)Apply knowledge obtained in Chemistry lecture to problem solving and critical thinking in the laboratory. ii)Utilize mathematical	SEMESTER I 536101 INORGANIC CHEMISTRY-I	<p>The student would be able to</p> <ul style="list-style-type: none"> ➤ Predict the shape of atoms and chemical bonding. ➤ To apply the Bronsted and Lewis concept of acids and bases for different explanations. ➤ Understand the structure of solids having different ratio of atoms.

		<p>ii) Can confidently attend and clear competitive examinations especially CSIR NET.</p> <p>iii) Become chemistry teachers in educational institutes and scientist in research laboratories</p>	<p>knowledge gained from general chemistry to perform common calculations, including mass balance, limiting reagent, and percent yield.</p> <p>iii) Engage in safe laboratory practices by handling laboratory glassware, equipment, and chemical reagents appropriately, using general guidelines and basic knowledge about the common hazards associated with them in an organic chemistry laboratory.</p> <p>iv) Maintain an appropriate scientific notebook using notational and descriptive content containing information on relevant chemical reagents, experimental procedure followed, data collected, and</p>		<ul style="list-style-type: none"> ➤ Predict the structure and stability of the coordination compounds. ➤ The formation of complexes based on the various theories. <p>Solving of problems about lanthanide and actinides.</p>
				<p>536102 ORGANIC CHEMISTRY-I</p>	<p>The student would be able to:-</p> <ul style="list-style-type: none"> ➤ Understand and give the IUPAC name of all organic compounds, reaction mechanism, aromaticity nature of the compounds. ➤ Efficient knowledge in the reaction mechanism of electrophilic and Nucleophilic reaction and naming reactions. ➤ Increase in ability of isomerism and stereochemistry of organic compounds. ➤ Create a valuable understanding of the main and important concepts in this course.
				<p>536103 PHYSICAL CHEMISTRY - I</p>	<p>The student would be able to:-</p> <ul style="list-style-type: none"> ➤ Recognize the importance of quantum chemistry and of its applications. ➤ Describe and understand the fundamentals of group theory. ➤ Describe the fundamental chemical and physical properties that determine chemical reaction rates. ➤ Understanding the use of free energies as equilibrium criteria and also determine the equilibrium state of a wide range systems, ranging from mixture of gases and mixture of liquids and solids that can each include multiple components. <p>Describe and explain common photochemical and photo physical processes and mechanisms and explain solar energy conversion.</p>
				<p>536104</p>	<p>The student would be able to:-</p>

			observations made during the experimental process.	INORGANIC CHEMISTRY PRACTICAL	➤ The student would have through practical knowledge in preparation of co-ordination complexes and its characterization with suitable instrumentation.
			v) Assemble glassware and perform the following techniques as a part of synthetic procedures: aqueous workup, distillation, reflux, separation, isolation, and crystallization.	536201- INORGANIC CHEMISTRY –II	The students will have advanced knowledge in:- ➤ The substitution reactions in complexes and its uses. ➤ The chemistry of cages and clusters. ➤ 18-electron rule for mono- and poly-nuclear complexes and bonding nature of alkenes and alkynes to metals. ➤ They will have expertise in nuclear reactions and its radio isotopes application.
			vi) Predict the outcome of several common organic reaction types through a basic understanding of starting materials, functional groups, mechanism, and typical reaction conditions.	536202 ORGANIC CHEMISTRY- II	The students will have advanced knowledge in:- ➤ Understand and be able to apply and evaluate simple organic reaction transformations, functional group interconversion and C-C bond formation reactions. ➤ Understand the scope and limitations as well as the mechanisms of organic reactions. ➤ Understand the importance of photochemistry and pericyclic reaction. Describe and explain currently held views of chemical reactions and account for the chemical reactivity of different reagents and intermediates
			vii) Characterize prepared substances by physical and spectroscopic means.	536203 PHYSICAL CHEMISTRY-II	The students will have advanced knowledge in:- ➤ Recognize the importance of quantum chemistry and of its applications. ➤ Describe and understand the basic group theory and its applications. ➤ Understanding the use of free energies as equilibrium criteria and also determine the equilibrium state of a wide range systems, ranging from mixture of gases and mixture of liquids and solids that can each include multiple components.

					<ul style="list-style-type: none"> ➤ Understanding and analyze the chemical reactions at surfaces and interfaces.
				536204 ORGANIC CHEMISTRY PRACTICAL	<p>The student would have through practical knowledge in the</p> <ul style="list-style-type: none"> ➤ Separation of organic mixture and identification of organic compounds. ➤ Double stage preparations. ➤ Chromatographic separations. ➤ Extraction of compounds from natural products. <p>Confirmation of structure of organic compounds using spectroscopic methods.</p>
				SEMESTER III 536301 CHEMISTRY OF INORGANIC COMPLEXES	<p>The students will have advanced knowledge in</p> <p>i) Predict the reaction mechanisms ii) The electron transitions in complexes and its effect on magnetic properties</p> <p>i) Recognize the mechanism of oxidation and reduction reactions in organic synthesis. ii) Recognize and distinguish the retro synthetic analysis. iii) Know about the importance and usefulness of protecting groups in organic synthesis.</p>
				536302 MODERN METHODOLOGIES IN ORGANIC CHEMISTRY	<p>The students will gain knowledge about</p> <p>i) advanced concepts in quantum mechanics which make the students to understand the atomic orbitals and their structures. ii) advanced theoretical aspects of various spectroscopies</p>
				536303 ADVANCED PHYSICAL CHEMISTRY	<p>Students will be able to:</p> <p>i) Understand and appreciate the significance of spectroscopy in structural elucidation also applying techniques. ii) solve spectral problems</p>

				536304 SPECTROSCOPY- APPLICATIONS IN ORGANIC AND INORGANIC CHEMISTRY	The student would have through practical knowledge in the i) Separation of organic mixture and identification of organic compounds ii) Double stage preparations, chromatographic separation and using spectroscopic method.
				536307 ORGANIC CHEMISTRY PRACTICAL	The student will be able to: i) Solve problems in all the topics of chemistry ii) Appear for the competitive examinations confidentially v) clear CSIR NET examinations and to pursue Ph.D.
				536401 COMPREHENSIVE CHEMISTRY	The students will be able to i) carry out electrical experiments such as Conductometric and Potentiometric Titrations ii) determine out the kinetic parameters in the ester hydrolysis
				536407 PHYSICAL CHEMISTRY PRACTICAL	The students will be able to; i) Carry out research in the field of chemical sciences ii) understand how to handle the instruments and equipments in the laboratories also safety measures. iii) go for higher studies in research
17.	M.Sc., Nanoscience and Technology)	The students will be able to engage in noteworthy, self-governing, and creative research in Nanoscience & Technology.	This course help learn advances in nanotechnology <u>Foster the transfer of new technologies into products for commercial and public benefit</u> Understand the	Course code: 533101 Basics of Mathematics and Quantum Mechanics	The students should be able to understand the basic and advanced concepts to analyze the Quantum Mechanics and mathematical physics. Scientifically improvement of new applications of quantum physics in computation. To become aware of the necessity for quantum methods in the analysis of physical systems of atomic and solid state physics.

		<p>The skill-based courses support the student to develop entrepreneurship in the current field of Nanoscience & Technology.</p> <p>The student acquire significant knowledge and update the mankind with current technology.</p>	<p>synthesis of nanomaterials and their application and the impact of nanomaterials on environment</p> <p>Apply their learned knowledge to develop Nanomaterials.</p>	<p>Course code: 533102</p> <p>Basics of Materials Science</p>	<p>To appreciate the applications of quantum mechanics in physics, engineering, and related fields</p> <p>To emphasize the significance of materials selection in the design process</p> <p>To get familiarize with the new concepts of Nano Science and Technology</p> <p>To educate the students in the basics of instrumentation, measurement, dataacquisition, interpretation and analysis</p> <p>To appreciate the applications of materials science in engineering and related fields</p>
				<p>Course code: 533103</p> <p>Basic Biotechnology</p>	<p>Understand the basic concepts of biotechnology and apply their knowledge in advanced area of nanoscience for the betterment and advancement of their professional career</p> <p>Understand the animal and plant cell culture techniques, which will help the students in micro and macro level manipulations of plants and animals for applications in environmental monitoring and health care.</p> <p>Gain expertise in the existing bioinformatics tools and resources for computational analysis of biological data.</p> <p>Understanding the problems related to genomics and proteomics, will be useful for the students in the modeling & analysis of living system</p>
				<p>Course code: 533104</p> <p>Introduction to Nanoscience</p>	<p>Knowledge on historical perspective of Nanoscience and technology.</p> <p>Basic knowledge on different structures of nanomaterials.</p>

					<p>Different dimensional structures of nanoparticles and nanomaterials.</p> <p>Ideas to synthesis and characterize nanoparticles</p>
				<p>Course code: 533107</p> <p>Nano science and Technology lab-I (Nano-Physics Experiments)</p>	<p>To learn Physics experiments based nanotechnology</p>
				<p>Course code: 533201</p> <p>Synthesis of Nanomaterials</p>	<p>Understand the basic and advanced concepts of nanomaterial preparations.</p> <p>Understand the importance of synthesis method addressed in the material properties and investigate the various factors influencing the properties of nanomaterials.</p> <p>Gain expertise in optimizing the synthesis methodology and will be able to fabricate novel device architectures and new nanomaterials with novel biological activity</p>
				<p>Course code: 533202</p> <p>Characterization of Nanomaterials</p>	<p>To know the importance of the synthesis method addressed in the material properties and give practical experience of nanomaterials synthesis/properties and characterization.</p> <p>To investigations into the various factors influence the properties of nanomaterials, optimizing the procedures, and implementations to the new designs.</p> <p>To provide a sound understanding of the various concepts involved in fabrication of device architectures and able to evaluate them in advance.</p> <p>To be able to analyze structural and optical properties</p>

					of nano structured materials.
				Course code: 533203	Understand the general physics and chemistry Microelectronics –photolithography.
				Applications of Nanomaterials	Understand processing techniques for nanomaterials Soft magnets for high speed memories and applications of Nanoceramics and Nanocomposites. Understand the important applications and properties of nanomaterials in bio field
				Course code: 533207	To learn basic synthesis of nanoparticles
				Nanoscience and Technology Lab – II (Nanochemistry Experiments)	
				Course code: 533301	Understand how nanotechnology can be tailored and used for biomedical purposes.
				Nanobiotechnolog y and Nanomedicine	Realize the need and obstacles in polymeric, lipidous and solid nanosized drug delivery systems. Understand how nano-relevant instruments such as focused ion beam scanning electron microscopes, atomic force microscopes and optical microscopes can be used in biomedicine. Perform simple micro fabrication procedure
				Course code: 533302	To give different types of conventional and novel nanoelectronic devices for different applications
				Nanoelectronics and Nano Devices	To study the significance of tunneling effect in nanoelectronic devices

					<p>To understand the concepts of coulomb blockade and electron transport</p> <p>To emphasize the importance of electronic property of materials in mesoscopic level</p> <p>To understand the underlying physical processes governing the operation of spintronic devices.</p>
				<p>Course code: 533303</p> <p>Nano Engineering</p>	<p>Knowledge on Nanoengineering.</p> <p>Basic knowledge on historical perspectives of nanoengineering.</p> <p>One can specialize in electronics, materials chemistry, bioengineering, and photonics.</p> <p>Ideas on different type of nano technology</p>
				<p>Course code: 533503</p> <p>Microsystem Technology</p>	<p>Know about an Idea in NEMS and MEMS.</p> <p>Methods for the fabrication through lithography techniques.</p> <p>Principles of Sensors functionalisation and assembling. Bio nanomachines</p>
				<p>Course code: 533307</p> <p>Nanoscience and Technology- lab III (Nano-biotechnology Experiments)</p>	<p>Acquire basic knowledge on practical techniques and approaches comonly used in bioechnology lined to nanotechnology.</p> <p>Understand the biogenic route for the synthesis of nanoparticles and apply it in the field of biological research.</p> <p>Gain knowledge on basic molecular biology techniques</p>
				<p>Course code: 533508</p> <p>Nanotoxicology</p>	<p>Analyze in depth about the toxic effect of nanoparticles and its adverse effect to the environment</p> <p>Comprehend the challenges and risk involved in</p>

					<p>nanotechnology</p> <p>Relate properties of nanomaterials with their transport, uptake, reactivity and toxicity in human system and environment</p> <p>Gain knowledge about various prevention methods and remedial measure to overcome the toxicity induced by the nanoparticles</p>
				<p>Course code: 533501</p> <p>Thin Film Technologies and Characteristics</p>	<p>To familiarize them with the principles, equipment, use, and limitations of different deposition techniques.</p> <p>To give students an overview of the phenomena and concepts involved in thin film.</p> <p>To gain knowledge of the various process techniques to synthesis Nanostructure materials.</p> <p>To understand the factors controlling growth of the nanomaterials</p>
18.	M.Sc., Chemistry (Specialization in Nanoscience and Technology)	All basic life forms on Earth depend greatly on chemistry for their survival, including us. Chemistry is a big part of your everyday life. We find chemistry in daily life in the foods we eat, the air we breathe, our	<p>To provide, thorough well designed studies of theoretical and experimental chemistry, a worthwhile educational experience for all students</p> <p>To acquire deep knowledge in fundamental aspects of all branches of chemistry</p>	<p>Course code: 538101</p> <p>Inorganic Chemistry - I</p>	<p>Will be able to study the knowledge of general inorganic chemistry concepts.</p> <p>Will be able to analyse the structure and bonding of inorganic compounds.</p> <p>Will be able to catch innovative idea for mini project work.</p> <p>Will be able to supply broad theoretical and applied background.</p> <p>Will be able to understand the various metal clusters.</p> <p>Will be able to identify the different types of nuclear reactions.</p>

		<p>soap, our emotions and literally every object we can see or touch. Without chemistry it would be extremely hard for us to live. We need chemistry and chemicals for everything we do.</p>	<p>To acquire basic knowledge in the specialized thrust areas like Photoelectrochemistry, Materials Chemistry, Chemistry in Nanoscience and Technology etc. and</p> <p>To develop abilities and skills that:</p> <p>are relevant to the study and practice of science,</p> <p>are useful in everyday life,</p> <p>are encouraging efficient and safe practice and effective communication.</p> <p>To develop attitudes relevant to science such as:</p> <ul style="list-style-type: none"> ➤ Concern for accuracy and precision, ➤ Objectivity, ➤ Integrity, 		Will be able to know the chemistry of the Lanthanides and the Actinides	
				Course code: 538102	Organic Chemistry - I	<p>Graphically visualize organic reactions with correct reaction mechanisms</p> <p>Use the concepts nucleophile and electrophile in order to explain the reactivity</p> <p>Will be able to analyze some common and important organic reactions such as SN₂, E₂, SN₁ and E₁ with mechanism</p> <p>Will know the nature and stability of aromatic compounds</p> <p>From stereochemistry the three dimensional atoms arrangement of organic compounds will be understood</p> <p>Will be able to understand the flexible nature of organic compounds through carbon-carbon bond rotation</p>
				Course code: 538103	Physical Chemistry-I	<p>Understand how operators play a major role in quantum mechanics.</p> <p>Realize the difference between different models of double layer in the field of electrochemistry.</p> <p>Understand how rate law is different from rate constant? and how order of reaction is different from one another?</p> <p>Recognize the need of second law of thermodynamics</p> <p>Realize the future research possibilities in the area of water splitting and dye sensitized solar cells.</p>
				Course code: 538107		Will be able to acquire knowledge about in-organic chemistry practical

			<ul style="list-style-type: none"> ➤ Enquiry, ➤ Initiative and ➤ Inventiveness. 	<p>Inorganic Chemistry Practical</p>	<p>Will be able to understand the how to do experimental work.</p> <p>Will be able to acquire knowledge in different types of titrations.</p> <p>Will be able to gain knowledge about the preparation and analysis of Co-Ordination Complexes</p>
				<p>Course code: 538201</p> <p>Inorganic Chemistry - II</p>	<p>Will be able to how to use in-organic chemistry.</p> <p>Will be able to study the role of inorganic materials.</p> <p>Will be able to catch innovative idea for mini project work.</p> <p>Will be able to understand the reaction mechanism of inorganic complexes.</p> <p>Will be able to study the different type of catalysis reactions</p> <p>Will be able to identify which bond has occurred by analyzing the type of electron interactions in terms of transferring or sharing.</p> <p>Will be able to know the chemistry of the bioinorganic materials</p>
				<p>Course code: 538202</p> <p>Organic Chemistry - II</p>	<p>Oxidation reduction concept using various reagents.</p> <p>Able to Explain the concept of reaction mechanism through organic name reactions and molecular rearrangement reactions</p> <p>aromatic electrophilic substitution reaction provides insight knowledge about aromatic compounds and their reactivity</p>

					<p>synthesis and stereochemistry of steroids will be understood</p> <p>properties and structure of vitamins and nucleic acids will be known</p> <p>able to know the application of chromatographic techniques in organic chemistry</p>
				<p>Course code: 538203</p> <p>Physical Chemistry - II</p>	<p>Understand application of wave mechanics.</p> <p>Realize the difference between different axis of symmetry and how to represent matrix</p> <p>Construct Character Tables for C_{2V} and C_{3V} point group molecules</p> <p>Realize the SALC procedure and application</p> <p>Recognize the Michaelis-Menten mechanism of enzyme catalysis, catalytic efficiency of enzymes, mechanisms of enzyme inhibition.</p>
				<p>Course code: 538207</p> <p>Organic Chemistry Practical - I</p>	<p>Acquire basic knowledge on practical techniques and approaches commonly used in organic chemistry linked to chemistry</p> <p>Understand the separation and identification of organic molecules and preparation of organic compounds</p> <p>Gain</p> <p>knowledge on organic chemistry practical through UV and IR techniques</p>
				<p>Course code: 538301</p> <p>Inorganic Chemistry - III</p>	<p>Will be able to study the basic ideas of IR and RAMAN spectroscopy</p> <p>Will be able to study the Mossbauer Spectroscopy.</p> <p>Will be able to catch innovative idea for mini project work</p>

					<p>Will be able to understand the magnetic properties of complexes.</p> <p>Will be able to understand the inorganic photochemistry</p> <p>Will be able to identify the different types of NMR spectroscopy</p> <p>Will be able to know the chemistry of bio-Inorganic Compounds</p>
				<p>Course code: 538302</p> <p>Organic Chemistry - III</p>	<p>Able to understand photochemistry of olefins and carbonyl compounds and various types of reactions</p> <p>Will have ability to explain the applications of various spectroscopic techniques in organic chemistry</p> <p>Will get the insight knowledge in heterocyclic compounds</p> <p>able to explain the concepts behind the retrosynthesis and functional group protection and deprotection.</p>
				<p>Course code: 538303</p> <p>Physical Chemistry - III</p>	<p>Recognize atomic orbital and their energies</p> <p>Realize the rules and application of spectroscopy</p> <p>Understand the concept of fuel cell and batteries and also know about corrosion and its prevention</p> <p>Realize the Concept of ensembles Partition functions</p> <p>Understand the Crystal structures, thermodynamics of Schottky and Frenkel defect formation, Superconductors.</p>
				<p>Course code: 538307</p>	<p>Developed expertise relevant to the professional practice to chemistry.</p>

				Physical Chemistry Practical	<p>An understanding of methods employed for problem solving in physical chemistry.</p> <p>Developed an understanding of the breadth and concepts of physical chemistry.</p> <p>Developed skills in procedures and instrumental methods applied in analytical and practical tasks of physical chemistry.</p>
				Course code: 533207 Nanochemistry Practical	<p>Developed expertise relevant to the professional practice to nano chemistry..</p> <p>An understanding of methods employed for problem solving in synthesis methods.</p> <p>Developed an understanding of the breadth and concepts of research works.</p> <p>Developed skills in procedures and instrumental methods applied in analytical and practical tasks of nano chemistry</p>
				Course code: 538501 Introduction to Nanoscience and Technology	<p>Understand how nanotechnology can be tailored and used for biomedical purposes, catalyst, nanorobotics, engineering.</p> <p>Understand the basic nanotechnology and characterization methods.</p> <p>Understand how nano-relevant instruments such as focused ion beam scanning electron microscopes, atomic force microscopes and optical microscopes can be used in nanotechnology.</p> <p>Perform simple micro fabrication procedure</p>
				Course code: 538503 Synthesis and	<p>Recognize atomic orbital and their energies</p> <p>Realize the rules and application of spectroscopy</p>

				<p>Characterization Techniques of Nanomaterials</p>	<p>Understand the concept of fuel cell and batteries and also know about corrosion and its prevention</p> <p>Realize the Concept of ensembles Partition functions</p> <p>Understand the Crystal structures, thermodynamics of Schottky and Frenkel defect formation, Superconductors</p>
				<p>Course code: 538507</p> <p>Nano Composite</p>	<p>Recognize atomic orbital and their energies</p> <p>Realize the rules and application of spectroscopy</p> <p>Understand the concept of fuel cell and batteries and also know about corrosion and its prevention</p> <p>Realize the Concept of ensembles Partition functions</p> <p>Understand the Crystal structures, thermodynamics of Schottky and Frenkel defect formation, Superconductors</p>
				<p>Course code: 538506</p> <p>Application of Nanotechnology</p>	<p>Understand application of wave mechanics.</p> <p>Realize the difference between different axis of symmetry and how to represent matrix</p> <p>Construct Character Tables for C_{2V} and C_{3V} point group molecules</p> <p>Realize the SALC procedure and application</p> <p>Recognize the Michaelis-Menten mechanism of enzyme catalysis, catalytic efficiency of enzymes, mechanisms of enzyme inhibition.</p>
				<p>Course code: 538701</p> <p>Physics and</p>	<p>Will be able to study the physical and chemical properties of nanomaterials</p> <p>Recall the quantum mechanical theory of Nanoscale</p>

				Chemistry of nanomaterials	materials Will be able to know the applications of special nanomaterials Recall the informations of nanoelectromechanical systems.
				Course code: 538702	Will be able to study the physical methods for identification of organic and inorganic compounds
				Applications of Spectroscopy in Materials Chemistry	Will be able to know the basic principles involved in spectroscopy Will be able to know the applications of spectroscopic techniques.
19.	M.Sc., Energy Science	To understand more knowledge about sustainable energy technologies to mitigate energy and environmental crisis.	To acquire deep knowledge in fundamental aspects of all branches of Sciences related to Energy Science	Basic Energy Sciences	The students shall be able to: i.) Understand conventional and non-conventional energy resources, solar energy conversion, solar concentrator and other applications, solar photovoltaic, fabrication and types of solar cells. ii.) Understand about wind energy, advantages and disadvantages of wind energy conversions, iii.) Identify various Biofuels, like Biodiesel, Bioethanol and Biogas, biomass energy conversions. iv.) Comprehend about the tidal power plant and limitations of tidal power generation, geothermal energy, applications of geothermal energy.
				Physics for Energy Sciences	i.) Comprehend kinetic energy and potential energy, conservative and non-conservative forces, relationship between conservative forces and potential energy. ii.) Identify action of heat over the solids and liquids; various laws of thermodynamics, energy transfer mechanisms. iii.) Understand Kirchoff's Rules, AC and DC circuits; RC Circuits, Rectifiers and filters, free-electron theory of metals. iv.) Acquire more information about properties of nuclei, binding energy and nuclear forces and reactions,

					nuclear models; natural radioactivity.
				Chemistry for Energy Sciences	<p>i.) Understand acid, base, Bronsted acids and bases, oxidation, reduction and displacement reactions.</p> <p>ii.) Comprehend the types of chemical bonding, electron sharing and Lewis symbols, electronegativity and Lewis acids, bases.</p> <p>iii.) Understand properties of solids and liquids, dynamic equilibrium and principle of Le Chatelier's theory.</p> <p>iv.) Know concept of thermodynamics and chemical kinetics of chemical reactions, collision theory and reaction mechanism.</p> <p>v.) Obtain more knowledge about fundamentals of electrochemistry and its real time applications.</p>
				Polymer Science and Technology	<p>i.) Understand basic concepts of polymer chemistry, polymerization principles and processes, types of polymerization, polymer kinetics.</p> <p>ii.) Know about fabrication, structure, testing and property of polymers, polymer product design and applications of polymers.</p> <p>iii.) Acquire more knowledge about Characterization of polymers, multicomponent polymeric material, compounding of polymers and post fabrication operations.</p> <p>iv.) Attain more information about frontier of polymer materials, biodegradable polymers, conducting polymers and nonlinear optical polymers.</p> <p>v.) Acquire application of polymer in energy device and problems of polymer.</p>
				Environmental Science	<p>i.) Understand various environmental cycles, sources, effect of air pollution, causes of ozone depletion and greenhouse effect.</p> <p>ii.) Comprehend global warming; Water Quality parameters – Potable water quality, Industrial water quality - Sources of water pollution.</p>

					<p>iii.) Appreciate principles of green chemistry- Renewable chemicals from biomass; environmentally benign technologies.</p> <p>iv.) Acquire Advantages of green technologies, Reactions without support or catalyst - example- microwave assisted reactions in water.</p> <p>v.) Learn more information about Carbon capture - carbon sequestration - carbon footprint</p>
				Advanced Nanomaterials and their application	<p>i.) Understand electrochemical deposition, synthesis of nanoparticles, Advantages of Nano materials.</p> <p>ii.) Know information about various methods for synthesis of Nano materials.</p> <p>iii.) Understand Design factors for biopolymers, bioplastic, biomaterials.</p> <p>iv.) Understand Anti-ferromagnetism, Perovskite solar cells- Advanced batteries – super capacitors.</p> <p>v.) Learn about various methods for synthesis Nano materials.</p>
				Instrumental Methods of Analysis	<p>i.) Learn more information about atomic absorption spectroscopy, atomic fluorescence spectrometry, Atomic Absorption Instrumentation.</p> <p>ii.) Understand instrumentation of Atomic Fluorescence Spectroscopy, X-ray Fluorescence Methods, X-ray Absorption Methods.</p> <p>iii.) Comprehend about principle and instrumentation Ultraviolet, Visible molecular absorption spectroscopy, Infra-red Absorption Spectrometry, IR spectroscopy; FTIR, Advances in Raman Spectroscopy.</p> <p>iv.) Understand types of Electro analytical method, Potentiometry, Potentiometric Titrations.</p> <p>v.) Learn more information about Coulometry, Coulometric Titrations, Voltammetric Instrumentation, Cyclic Voltammetry.</p> <p>vi.) Understand Advanced Characterization Techniques for Energy Materials and various thermal analyses.</p>

				<p>Climate Change and CO₂Emission Assessment</p> <p>i). Learn Overview of energy sources and technologies, social and economic implications of energy uses.</p> <p>ii). Understand theory of global climate change, mechanism of Greenhouse Gases Emission; describe theory and proof of climate change impacts.</p> <p>iii). Comprehend about International concern on Climate change and mitigation efforts CO₂ emission in relation to energy conversion processes, describe fundamental concept on combustion.</p> <p>iv). Acquire Knowledge in practical examples and comparison of alternative resources on reduction of CO₂ emission Methodology for CO₂ assessment/carbon foot print.</p> <p>v). Understand Estimation of emission from fossil fuel-emission from major sectors; Definition - concept and examples Carbon credit.</p>
				<p>Energy Storage System</p> <p>i.). Understand electrochemical reactions, lead acid batteries, and Lead acid battery for PV, automotive applications.</p> <p>ii.). Know about advanced anodes and cathodes – theoretical capacity –Battery fabrication technology and testing - batteries for electric vehicles.</p> <p>iii.). Learn more information about solar photovoltaic applications; Lithium-Air - Sodium-Air - Zinc-Air batteries.</p> <p>iv.). Obtain more information about fuel cell catalysts – precious and non-precious metal catalysts - bi-functional catalysts – nanomaterials for low temperature fuel cells.</p> <p>v.). Understand fuel cells for vehicles and grid connected applications.</p>
				<p>Wind and Hydro Energy</p> <p>i.) Comprehend about wind power plant like Wind tower components, wind turbine size classes, Towers and Types of propellers.</p>

					<p>ii.) Learn Wind chargers , Grid connected wind turbines -Wind farms - offshore wind farms - planning and designs</p> <p>iii.) Attain more information about Hydrology - Potential of hydropower in India - Classification of Hydropower Plants - Small Hydropower Systems.</p> <p>iv.) Understand Tidal power plants, Wave power plants, Ocean current power plants, Hydropower markets.</p> <p>v.) Learn importance of power plant, hydro power in North East India.</p>
				Solar Thermal Energy	<p>i.). Comprehend about solar radiation on the earth surface, Extraterrestrial radiation characteristics, Terrestrial radiation and solar isolation.</p> <p>ii.). Know Depletion of solar radiation Absorption, scattering, Beam radiation, diffuse and Global radiation, Measurement of solar radiation.</p> <p>iii.). Obtain more information about Carnot cycles, reheat, regeneration and supercritical Rankine cycles, Brayton cycle, Stirling cycle, Binary cycles and Combined cycles.</p> <p>iv.). Know about solar thermal power plants, hybrid solar-gas power plants, solar pond based electric power plant.</p> <p>v.). Understand solar Communities-Cooling with the sun, Swimming with the sun, Cooking with the sun; Solar thermal Heating of Domestic Hot Water.</p>
				Photovoltaics	<p>i.). Understand Semiconductors and types of semiconductor.</p> <p>ii.). Acquire more information about Anti-reflection principles and coatings, P-N junction , p-i-n junction and its properties</p> <p>iii.). Understand Nano tech solar cells, characterization technique, PV modules: Identical and Non-identical Cells.</p> <p>iv.). Know about Remote area power systems, purpose</p>

					<p>Photovoltaic systems, Solar PV concentrators, Concentrator photovoltaic materials and devices.</p> <p>v.). Comprehend about Hybrid SPV power systems, SPV power plant design tools and methodologies, SPV economics.</p>
				Hydrogen Energy Systems	<p>i.). Understand Uses for Hydrogen, Natural Gas, Reforming of Natural Gas, Gas Separation Processes and Characteristics of Steam Reforming of Methane.</p> <p>ii.). Acquire more information about Membrane Developments for Gas Separation, Partial Oxidation of Hydrocarbons.</p> <p>iii.). Comprehend about Phosphoric Acid Fuel Cell, Alkaline Fuel Cell, Direct Borohydride Fuel Cell.</p> <p>iv.). Understand Proton exchange Membrane Fuel Cell, Direct Methanol Fuel Cell - Miniature Fuel Cells.</p> <p>v.). Know about types of Fuel Cell: High Temperature, Molten Carbonate Fuel Cell, Direct Carbon Fuel Cell, Solid Oxide Fuel Cell, Fuel Cell Efficiencies, and Applications of Fuel Cells.</p> <p>vi.). Acquire Knowledge on carbon nanotubes, Glass capillary arrays; Glass microspheres, stationary hydrogen storage, Underground hydrogen storage.</p>
				Energy Audit and Management	<p>i). Understand the need of Energy Audit and Management.</p> <p>ii) Acquire more knowledge about principles of Energy management and Energy management strategy.</p> <p>iii). Understand more information about energy policy, marketing and communication training.</p> <p>iv). Know about law of efficiency, energy systems and process flow.</p> <p>iv). Understand more knowledge about energy balance sheet, management information system.</p> <p>v). Obtain more information about instruments of audit, monitoring energy savings and its accuracy.</p>
20.	MCA	*Developing problem	prepare students to	1.Digital	<ul style="list-style-type: none"> Design and realize the functionality of the computer hardware with basic gates and other

	<p>solving and programming skills in various computing fields of IT industries. *Widening the ability to plan, analyse, design, code, test, implement & maintain a software product for real time system. *Supporting students capability to set up their own enterprise in various sectors of computer industry. *Involving the students in</p>	<p>take up positions as system analysts, systems designers, Programmers and managers in any field related to information technology and the student can work in different industries like networking, hardware and software development.</p>	Computer Organization	<p>components using combinational and sequential logic.</p> <ul style="list-style-type: none"> Understand the importance of the hardware-software interface
			2. C and Data Structures	<ul style="list-style-type: none"> Write programs using structures, strings, arrays, pointers and strings for solving complex computational problem. Using the data structures real time applications, able to analyse the efficiency of Data Structure.
			3.Relational Database Management Systems	<ul style="list-style-type: none"> Design a database using ER diagrams and map ER into Relations and normalize the relations Acquire the knowledge of query evaluation to monitor the performance of the DBMS. Develop a simple database applications using normalization.
			4.Discrete Mathematics	<ul style="list-style-type: none"> Acquire the basic knowledge of matrix, set theory, functions and relations concepts needed for designing and solving problems Acquire the knowledge of logical operations and predicate calculus needed for computing skill Able to design and solve Boolean functions for defined problems
			5.Computer Networks	<ul style="list-style-type: none"> Able to understand the working principles of various application protocols Acquire knowledge about security issues and services available
			6.Object Oriented Programming and	<ul style="list-style-type: none"> Able to understand and design the solution to a problem using object-oriented programming

		<p>developing system based applications and finding solutions for real time problems in various domains.</p> <p>*Preparing the students to pursue higher studies in computing or related disciplines.</p>		C++	<p>concepts.</p> <ul style="list-style-type: none"> • Understand and implement the features of C++ including templates, exceptions and file handling for providing programmed solutions to complex problems
				7.Operating Systems	<ul style="list-style-type: none"> • Able to understand the operating system components and its services • Implement the algorithms in process management and solving the issues
				8.Accounting & Financial Management	<ul style="list-style-type: none"> • Able to understand the balance sheet preparation and do analysis • Able to understand the budget preparation and control of a company
				9.Communication Skills	<ul style="list-style-type: none"> • Understood the basics of communication skills and soft skills • Acquired knowledge in presentation skills
				10.Computer Graphics	<ul style="list-style-type: none"> • Enhance the perspective of modern computer system with modeling, analysis and interpretation of 2D and 3D visual information. • Able to develop interactive animations.
				11.Java Programming	<ul style="list-style-type: none"> • Able to understand the internet standards and recent web Technologies • Able to implement, compile, test and run Java program, • Able to make use of hierarchy of Java classes to provide a solution to a given set of requirements found in the Java API
				12.Design and Analysis of Algorithms	<ul style="list-style-type: none"> • Able to apply the algorithm design techniques to any of the real world problem.

					<ul style="list-style-type: none"> • Able to write efficient algorithm for a given problem and able to analyze its time complexity
				13. Visual Programming with .NET	<ul style="list-style-type: none"> • Able to understand and design the solution to a problem using VB. Net • Understand and implement the features of .Net for providing programmed solutions to complex problems
				14. Data Mining and Warehousing	<ul style="list-style-type: none"> • Understand the data mining techniques, classification and web mining • Acquire knowledge in clustering techniques
				15. Software Engineering	<ul style="list-style-type: none"> • Able to understand the problem domain for developing various models of software Engineering. • Able to measure the product and process performance using various metrics. • Able to evaluate the system with various testing techniques and strategies.
				16. Digital Image Processing	<ul style="list-style-type: none"> • Discuss digital image fundamentals. • Apply image enhancement and restoration techniques. • Use image compression and segmentation Techniques and represent features of images.
				17. Mobile Communications	<ul style="list-style-type: none"> • Know about different types of Wireless Communication Networks and their functionalities. • Understand the architectures, the challenges and the Solutions of Wireless Communication those are in use. • Realize the role of Wireless Protocols in shaping the future Internet.

					<ul style="list-style-type: none"> • Able to develop simple Mobile Application Using Android
				18.Python Programming	<ul style="list-style-type: none"> • Discuss the concepts of object oriented programming. • Use generators and iterators. • Develop test cases and handle refactoring. • Use objects to program over the web. • Able to learn the various object oriented methodologies and choose the appropriate one for solving the problem • Understand the concept of analysis, design & testing to develop a document for the project
21.	M.Sc(Computer Science)	<p>*Possess theoretical knowledge and practical experience in current and emergency fields in computer science.</p> <p>*Exhibit enough technical skills to solve real world problems using computational knowledge</p> <p>*Emerge as software</p>	<p>On Successful Completion of the Programme the students</p> <p>*Possess an explorative knowledge in computer field with technical and programming skill sets.</p>	Design and Analysis of Algorithms	<ul style="list-style-type: none"> ➤ Ability to choose appropriate method to solve problem. ➤ Deriving time complexity of solving problem. ➤ Efficiency to build computational models for problem solving
				Advanced Web Technology	<ul style="list-style-type: none"> ➤ Design a web page with Web form fundamentals and web control classes ➤ Apply the knowledge of ASP.NET object, ADO.NET data access and SQL to develop a client server model. ➤ Recognize the difference between Data list and Data grid controls in accessing data.
				Advanced Database Management Systems	<ul style="list-style-type: none"> ➤ conceptualize data using different data models and construct database applications with back-end servers. ➤ understand Knowledge Patterns, Object Oriented and Multimedia databases. ➤ Ability to work with multi types of databases.
				Compiler Design	<ul style="list-style-type: none"> ➤ Ability to develop compiler programs. ➤ Knowledge of system programs. ➤ Skill to optimize system programs

		professional playing/serving different roles in computer science domains *Become an Entrepreneur in IT industry		Distributed Operating System	<ul style="list-style-type: none"> ➤ Knowledge on resource management by mutual exclusion and Deadlock detection of Distributed operating system. ➤ Ability to design and implement algorithms of distributed shared memory and commit protocols ➤ Able to design and implement fault tolerant distributed systems.
				Advanced Java Programming	<ul style="list-style-type: none"> ➤ Able to develop a Graphical User Interface (GUI) with Applet and Swing. ➤ Develop a Client-Server Application with Database Maintenance. ➤ Knowledge of JDBC, Servlet
				Cryptography And Network Security	<ul style="list-style-type: none"> ➤ Understand the fundamentals of networks security, security architecture, threats and vulnerabilities ➤ Apply the different cryptographic operations of symmetric and asymmetric cryptographic algorithms ➤ Apply the various Authentication schemes to simulate different applications.
				Digital Image Processing	<ul style="list-style-type: none"> ➤ Capacity to work with image transformation, Image enhancement techniques ➤ Well versed in Image restoration techniques and methods ➤ Potential to image compression and segmentation principles
				Internet of Things	<ul style="list-style-type: none"> ➤ Gain good knowledge of IoT and Web of Things to program IoT related products in real life. ➤ Knowledge of IoT protocols ➤ It helps to rely less on physical resources and started to do their work smarter.
				Machine Learning	<ul style="list-style-type: none"> ➤ Design machine learning solutions to real-world problems ➤ Implement machine learning solutions to

					<p>classification, regression, and clustering problems;</p> <ul style="list-style-type: none"> ➤ Algorithm development skill for Instant learning
				Advanced Computer Networks (Elective)	<ul style="list-style-type: none"> ➤ To master the terminology and concepts of the OSI reference model and the TCP-IP reference model. ➤ To master the concepts of protocols, network interfaces, and design/performance issues in local area networks and wide area networks. ➤ To be familiar with wireless networking concepts, and be familiar with contemporary issues in networking technologies.
				Object Oriented System Development	<ul style="list-style-type: none"> ➤ In depth knowledge about UML and Modelling Concepts ➤ Systematic knowledge about Software Development Process ➤ Expertise in OOSD development
				Dot Net Programming	<ul style="list-style-type: none"> ➤ Learn major programming paradigms and techniques involved in design and implementation of modern programming languages. ➤ Students can develop, implement and creating applications with C#. VB.NET and ASP.NET ➤ An ability to use current techniques, skills, and tools necessary for computing practice.
				Optimization Techniques	<ul style="list-style-type: none"> ➤ Finding feasibility for solving an optimization problem ➤ Knowledge of Optimization Techniques to solve Industrial problems. ➤ Investigate innovative solutions for various real applications
				Wireless Networks	<ul style="list-style-type: none"> ➤ Good Knowledge in 3G/4G and WiMAX networks and its architecture. ➤ Design and implement wireless network for any application

					<ul style="list-style-type: none"> ➤ Different type of applications with latest network strategies
				Software Architecture	<ul style="list-style-type: none"> ➤ Explain key architectural drivers ➤ Explain the influence of architecture on business and technical activities ➤ Develop alternative architectures for a given problem
				Embedded Systems	<ul style="list-style-type: none"> ➤ Do software optimization and aware of interrupts and hyper threading. ➤ Design real time embedded systems within realistic constraints using the concepts of RTOS. ➤ Classify embedded systems.
				Statistical Computing	<ul style="list-style-type: none"> ➤ Data analytics from a database formed from the real world problem ➤ Predict the exact reason for the real time issues ➤ Ability in statistical hypothesis
				Advanced Data Mining Techniques	<ul style="list-style-type: none"> ➤ Familiar with data mining concepts for solving real world problems ➤ Discover and measure interesting patterns from different kinds of database ➤ Design and implement data mining techniques to solve practical problems
				Software Project Management	<ul style="list-style-type: none"> ➤ Analyze the scope, quality of the project, cost, timing for success of project. ➤ Implement project management knowledge, processes, lifecycle and the embodied concepts, tools and techniques in order to achieve project success. ➤ Adapt projects in response to issues that arise internally and externally.
				Web Services	<ul style="list-style-type: none"> ➤ Developing web services ➤ Managing Enterprise framework with SOA ➤ Skill in testing web services
				WAP and XML	<ul style="list-style-type: none"> ➤ Apply XML concepts to develop Web application ➤ Develop SOA application using XML and Web

					<p>Services.</p> <ul style="list-style-type: none"> ➤ Extract information from the web sites using XML programming
				Cloud Computing	<ul style="list-style-type: none"> ➤ Systematic knowledge of the cloud technologies, architecture, virtual server usage and virtual server management techniques. ➤ Learn to use cloud services and secured the cloud data ➤ Programming skill in Python programming
				Principles of Soft Computing	<ul style="list-style-type: none"> ➤ Students have good knowledge of working with Soft Computing ➤ Invoking Fuzzy principles and Genetic Algorithms in Problem Solving ➤ Ability to solve any soft Computing Problem
				Data Science and Big Data Analytics	<ul style="list-style-type: none"> ➤ Able to understand the key concepts of Data Science and Data Analytics ➤ Able to apply Hadoop ecosystem components. ➤ Able to participate data science and big data analytics projects
				Web Mining	<ul style="list-style-type: none"> ➤ Build a sample search engine using available open source tools ➤ Identify the different components of a web page that can be used for mining ➤ Apply machine learning concepts to web content mining
				Mobile Computing And Green It	<ul style="list-style-type: none"> ➤ Describe the basic concepts and principles in mobile computing ➤ In depth knowledge about the mobile architectures and emerging trends ➤ Understand the need for Green IT and explore the necessity of virtualization or resources
				High Performance Computing	<ul style="list-style-type: none"> ➤ Familiar with Cluster Computing , Architecture, Tools, Detecting and Masking Faults, Recovering from Faults. ➤ Describe the basic concepts and principles of

					<p>Cloud Computing</p> <ul style="list-style-type: none"> ➤ Ability to program with cloud computing
				Artificial Intelligence and Expert Systems	<ul style="list-style-type: none"> ➤ Identify problems that are amenable to solution by AI methods. ➤ Formalise a given problem in the language/framework of different AI methods. ➤ Implement basic AI algorithms.
				Cyber Security and Forensics	<ul style="list-style-type: none"> ➤ Able to identify security risks and take preventive steps ➤ Investigate cybercrime and collect evidences ➤ Able to use knowledge of forensic tools and software
22.	M.Sc (Information Technology)	<p>Apply the knowledge of Information Technology, Mathematics, Science, and Management principles to produce effective and professional solutions for specific problems.</p> <p>Develop solutions for complex problems and plan system components or processes that meet the specified</p>	<p>Creating learning environment to transform the students with strong fundamentals in analytics, programming and problem solving.</p> <p>Providing well exposure to students to latest tools & technologies in the field of IT.</p> <p>Providing effective and competent real time solutions using gained experience in various domains.</p> <p>Fabricating the IT students competent in Academic,</p>	<p>546101- Mathematics For Computing</p> <p>546102 – Distributed Operating System</p> <p>546103 – Web Technology</p> <p>546104 – Python Programming</p>	<p>Ability to Illustrate by examples the basic terminology of functions, relations, and sets and demonstrate knowledge of their associated operations.</p> <p>Ability to Demonstrate in practical applications the use of basic counting principles of permutations, combinations, inclusion/exclusion principle and the pigeonhole methodology.</p> <p>Knowledge and understanding of potential benefits of Distributed OS.</p> <p>Analyze the various device and resource management techniques for timesharing and distributed systems.</p> <p>Design a web page with web form fundamentals and web control classes.</p> <p>Analyze a web page and identify its elements and attributes. Create XML documents and Schemas.</p> <p>Understand the basics of python programming language.</p> <p>Illustrate simple programs with control structures.</p> <p>Apply advanced concepts like data structures and make</p>

		needs with appropriate consideration for the society, health, safety, cultural, societal, and environmental considerations .	Research, Industry, Government, Private and Business organizations with the acquired programming skills.		use of functions.
		Use innovative and creative methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions in the field of Information Technology.		546105 - Lab I: Web Technology And Python Lab	Design and Implement database applications. Develop Python programs step-wise by defining functions and calling them. Read and write data from/to files in Python.
				546201 – Database Systems	Upon successful completion of this course, students should be able to, improve the database design. Familiar with basic database storage structures and access techniques: file and page organizations, indexing methods.
				546202 – Data Mining	Demonstrate advanced knowledge of data mining concepts and techniques. Analyze and evaluate performance of algorithms for Association Rules. Deploy Classification and Clustering algorithms.
				546203 – Software Testing and Quality Assurance	Create test strategies and plans, design test cases, prioritize and execute them. Manage incidents and risks within a project.
				546204 – Lab II: Data Mining Lab	To obtain practical experience using data mining techniques on real world data sets. Emphasize hands-on experience working with all real data sets.
				546205 – Lab III: Software Testing Lab	Design and develop the best test strategies in accordance to the development model.
		Identify and use appropriate software		546301 – Internet of Things	Understand the fundamental concept of IoT. Describe the function of IoT systems. Analyze different protocols for IoT.

		development tools, techniques, resources, software systems, and modern computing IT platforms.			<p>Explain the web services related to IoT device access controls.</p> <p>Design a portable IoT using Raspberry Pi.</p> <p>Deploy an IoT application and connect to the cloud.</p> <p>Analyze applications of IoT in real time scenario.</p>
		Drives scientific and societal advancement through technological innovation and entrepreneurship.		546302-Big Data Analytics and R programming	<p>Able to understand the key concepts of Data Analytics.</p> <p>Able to apply Hadoop ecosystem components.</p> <p>Able to participate in big data analytics projects.</p>
		Understand and follow the ethical principles of IT and entrust professional ethics and responsibilities.		546303-Machine Learning	<p>Gain knowledge about basic concepts of Machine Learning.</p> <p>Identify machine learning techniques suitable for a given problem.</p> <p>Solve the problems using various machine learning techniques.</p>
				546304-Lab III: Data Analytics Lab	<p>Prepare and equip students for opportunities in ever changing technology with hands-on industrial training.</p> <p>Transform the students to become globally competent professionals through internship.</p>
				546305-Lab IV- Machine Learning Lab	<p>Apply the apt machine learning strategy for any given problem.</p> <p>Modify existing machine learning algorithms to improve classification efficiency.</p> <p>Design systems that uses the appropriate graph models of machine learning.</p>
				546999 - Project Work and Viva Voice (Industry/	<p>Acquire IT related Software Industrial exposure in Computer Programming, Real time software Design and development, presentation and Project Management skills</p>

				Research)	
				546501-Object Oriented Software Engineering	<p>Apply various software architectures, including frameworks and design patterns, when developing software projects.</p> <p>Extract an Object Model and Dynamic Model of system functionality and performance from the requirements.</p>
				546502-Software Project Management	<p>Plan and manage projects at each stage of the software development life cycle (SDLC).</p> <p>Apply estimating and risk management techniques to projects.</p> <p>Work in groups to analyze a project and implement a solution.</p>
				546503-Object oriented Analysis and Design	<p>Design and implement projects using OO concepts. Use the UML analysis and design diagrams and apply appropriate design pattern.</p> <p>Create code from design and be familiar with various testing techniques</p>
				546504-Virtualization & Cloud Computing	<p>Articulate the main concepts, key technologies, strengths, and limitations of cloud computing and the possible applications for state-of-the-art cloud computing.</p> <p>Identify problems, and explain, analyze, and evaluate various cloud computing solutions.</p> <p>Apply and design suitable Virtualization concept, Cloud Resource Management and design scheduling algorithms.</p>
				546505-Embedded	Become familiar with programming environment used to develop embedded

				Systems	<p>systems.</p> <p>Foster ability to understand the role of embedded systems in industry.</p> <p>Experience common aspects of embedded system development</p>
				546506-Soft Computing	<p>Understand soft computing techniques and their role in problem solving.</p> <p>Comprehend the fuzzy logic and the concept of fuzziness involved in various systems and fuzzy set theory.</p> <p>Analyze the genetic algorithms and their applications.</p>
				546507-Mobile Computing	<p>Grasp the concepts and features of mobile computing technologies and applications.</p> <p>Identify the important issues of developing mobile computing systems and applications.</p> <p>Organize the functionalities and components of mobile computing systems into different layers and apply various techniques for realizing the functionalities.</p>
				546508-Mobile Application Development	<p>Be competent with the characterization and architecture of mobile applications.</p> <p>Be competent with designing and developing mobile applications using one application development framework.</p> <p>Evaluate the role of mobile applications in software intensive systems</p>
				546509-Wireless Ad hoc and	<p>Identify different issues in wireless ad hoc and sensor networks.</p>

				Sensor Networks	<p>To analyze protocols developed for ad hoc and sensor networks.</p> <p>Establish a Sensor network environment for different type of applications.</p>
				546701-Principles of Information Technology	<p>Explain the current trends in information technology .</p> <p>Describe the components of computer and programming languages.</p> <p>Elaborate concepts, types of computer networks and various network topologies.</p> <p>Use internet and its services like E-Mail, Navigation in the web.</p> <p>Implement IT concepts in real time applications.</p>
				546702-Office Automation and E-Governance	<p>The course focuses on computer fundamentals.</p> <p>To understand the concept of Office.</p> <p>To comprehend the administrative process in office.</p>
				546703-Object Oriented Programming with C++	<p>To obtain the knowledge about the number systems this will be very useful for bitwise operations.</p> <p>To develop programs using the basic elements like control statements, Arrays and Strings.</p> <p>To understand about the code reusability with the help of user defined functions.</p>
				546704-Internet and Web Design	<p>Review the current topics in Web & Internet technologies.</p> <p>Learn the basic working scheme of the Internet and World Wide Web.</p> <p>Understand fundamental tools and technologies for web design.</p>

					Comprehend the technologies for Hypertext Mark-up Language (HTML).
23.	M.Sc., Biotechnol ogy	1) To enrich the Graduates with solid fundamentals of modern biology and advanced technologies. 2) To enable them to employ the acquired theoretical knowledge as well as hands on skills in Industry and/or Institutes, wherever necessary.	Biotechnology is an area of science which applies advanced technology for the production of varied products from the biological systems. The graduate students who successfully complete the Programme will have an in-depth knowledge on how the biotechnological tools can be applied for the development of several products useful to the society. Since Biotechnology is applied in many fields, the graduates can easily find jobs in different industry sectors such as pharmaceutical, healthcare, agriculture, food processing and so on. On the other hand, candidates who wish to acquire advanced knowledge	501101- BIOCHEMISTRY (Core - 4 credits)	1. Acquire knowledge on the building blocks of the macromolecules, their chemical properties and their modification and their importance in normal functioning of living organisms. 2. Understand the metabolic pathways and identify how the genetic abnormalities disturb the normal homeostasis and link with pathological conditions 3. Understand the applications of biochemistry in medicine, agriculture, and Pharmaceuticals
				501102- MICROBIOLOGY (Core - 4 credits)	1. Explain the historical perspectives of microbiology 2. Describe the use of Bergey's Manual of Systematic Bacteriology and its criteria for the taxonomy of prokaryotes 3. Understand and list the structural differences between eukaryotic and prokaryotic cells. 4. Understand the role of beneficial microorganisms in the environment and the application to benefit mankind. 5. List and describe the mechanisms of action of major chemotherapeutic agents that control microorganisms. 6. Explain about factors responsible for the virulence of different pathogenic microorganisms
				501103-CELL BIOLOGY (Core - 4 credits)	1. Equip themselves with a basic knowledge of the structural and functional properties of cells. 2. Learn the basic concepts and theories of cell and become aware of the complexity (endomembrane system in eukaryotes) and harmony of the cell.

		<p>in the subject can opt for doing PhD, which is the higher level of academic degree. The Indian Government motivates the students who take up research as their career by offering competitive fellowships through various funding agencies such as CSIR, DBT, ICMR, DST and UGC. The graduates can avail fellowship from any of these funding agencies for doing PhD in India; or else, the graduates also have the option of pursuing PhD degree in abroad by availing the applicable Fellowship schemes. After completion of the PhD programme they can take up an academic position in Higher Educational Institution or a scientist position in any National</p>		<ol style="list-style-type: none"> 3. Describe important functions of the cell, its microscopic structure and the structure of the key cellular components including membranes, various membrane bound organelles, the cytoskeleton network, and the genetic material. 4. Get basic knowledge on practical techniques and approaches commonly used in molecular cell biology aspects such as protein sorting and aging studies. 5. Understand cellular components and their functions at a particular stage of development and differentiation. 6. Describe the mechanisms for cell growth, cell division, cell expansion and cell differentiation. 7. Learn the importance of necrosis and apoptosis.
			<p style="text-align: center;">501104 - MOLECULAR BIOLOGY AND GENETICS (Core -4 credits)</p>	<ol style="list-style-type: none"> 1. Understand the occurrence of central dogma of life in the cell and the machineries involved to initiate and inhibit. 2. Fathom the genome organization and control of gene expressions in prokaryotes and eukaryotes. 3. Decipher the types of mutant, isolation and characterization of mutant, types of genetic recombination, and the phenomenon of mutation, types, their causative agents, detection and repair mechanism. 4. Comprehend the genetic transfer methods and gene mapping, gene structure analysis, transposons types, nomenclature and their mechanism. 5. Aware of the genetic disorders in humans due to structural and numerical alterations in

			Laboratory/R& D set up. Alternatively, the graduate can become an entrepreneur by starting up a Biotechnology industry/company and thereby he/she can offer jobs to others and such a venture will pave the way for the economic growth of the Country. Hence, upon successful completion of the Programme, lots of avenues are available for the graduates. They can become successful in their career, if the right path is chosen by them, depending upon their desire.		the chromosomes and its inheritance.
				501105-LAB I: ANALYTICAL BIOCHEMISTRY (Core - 3 credits)	<ol style="list-style-type: none"> 1. On successful completion of Analytical Biochemistry course, students will be able to: Acquire basic knowledge on practical techniques and approaches commonly used in analytical biochemistry in the aspects of biochemical enzyme assays and separation techniques. 2. Realize the significance of electrophoretic techniques in molecular diagnosis 3. Understand about biostatistics and apply it for data analysis in the field of biological research.
				501106-LAB II: MICROBIOLOGY (Core - 3 credits)	<ol style="list-style-type: none"> 1. Familiarize with laboratory equipments used for working with microorganisms. 2. Develop expertise to use microscopes in the laboratory 3. Describe how microorganisms are collected, inoculated, cultured, incubated, and autoclaved 4. Perform and evaluate the use of water and food analyses 5. Understand the methods to characterize the unknown bacteria 6. Be proficient in writing scientific texts by accumulating information and results of each laboratory experiment in form of reports
				501201- IMMUNOBIOLOG Y (Core - 4 credits)	<ol style="list-style-type: none"> 1. Obtain knowledge on the basic concepts of immune system, mechanisms of immunity and the development and maturation process of immune competent cells 2. Recognize the structures and functions of

					<p>immunoglobulin molecules</p> <p>3. Understand the mechanism of immunodeficiency diseases and autoimmunity against infection.</p> <p>4. Realize the methods for the treatment of immune related diseases</p> <p>5. Know the interaction between antigen- antibody molecules</p>
				<p>501202- RECOMBINANT DNA TECHNOLOGY (Core - 4 credits)</p>	<p>1. Understand and think about the basics of recombinant DNA technology</p> <p>2. To understand the role, use and types of different DNA modifying enzymes viz. Polymerases, Nucleases, restriction endonuclease, ligases etc.</p> <p>3. Acquire basic knowledge of DNA sequencing methods from conventional (Sanger sequencing) to High throughput Next generation sequencing technology, their principle, chemistry, theory and types.</p> <p>4. Students will able to understand the strategies and steps involved in the construction of genomic and CDNA library, essential tools and the role of each and every constituent, DNA footprinting as well as description of industrial application of rDNA Technology, therapeutic and enzymatic products and deployment of rDNA Technology in diagnosis and disease.</p> <p>5. The syllabus will also provide a plethora of information to students related to basic molecular biology techniques like blotting and its different types, genome editing techniques and synthetic biology.</p>

				<p>501203–PLANT MOLECULAR BIOLOGY (Core – 4 credits)</p>	<ol style="list-style-type: none"> 1. Narrate the architecture of nuclear, chloroplast and mitochondrial genomes of higher plants 2. Differentiate protein coding and RNA coding genes, its structure, expression, and regulation under particular development condition 3. Explain how gene function and regulation is used in modern plant biotechnology for plant improvement. 4. Gain knowledge Identify the basic methods and approaches used in molecular biology to utilize molecular markers. 5. Discuss the pros and cons of transgenic plants and to understand emerging technologies such as phytoremediation
				<p>501204–LAB III: MOLECULAR BIOLOGY AND GENETIC ENGINEERING (Core – 3 credits)</p>	<ol style="list-style-type: none"> 1. Understand the basic techniques involved in the maintenance of microbial cultures. 2. Knowledgeable in mutagenesis, mutagen and its impact on phenotypic traits of an organism and also in isolating antibiotic-resistant and auxotrophic mutants using various techniques. 3. Well-equipped in carrying out transformation such as Chemical mediated transformation, Competent cell preparation, Microinjection, Electroporation, Tri-parental mating and various ways to visualize the transformed colonies. 4. Understand and perform Generalized and Specialized Transduction, Genetic mapping by P1 transduction. 5. Perform the genomic DNA library construction.
				<p>501205–LAB IV: IMMUNOTECHN</p>	<ol style="list-style-type: none"> 1. Independently perform the experiments involved in human immunology research

				<p>LOGY (Core – 3 credits)</p>	<p>2. Understand about the human immune system and infectious diseases</p> <p>3. Acquire knowledge in recent advancement in human immunology.</p>
				<p>501301– GENOMICS AND PROTEOMICS (Core – 4 credits)</p>	<p>Each unit is designed to accommodate students from multiple disciplines; therefore the students are expected to understand the basics concepts of Genomics & Proteomics and its involvement in biological processes that can be utilized as a parameter for the analysis of biological expression. The student also will study in depth the expression analysis of a protein. The student will be equipped with knowledge of various proteomic techniques required to measure the expression level of proteins which could be used in future. The understanding of interactomics with analysing the expression of protein with reporter gene and GFP can equip the student for future career perspective. The student will study the introduction of emerging fields such as proteogenomics, metabolomics, lipidomics, etc. which will show the importance of their existence in growing translational research.</p>
				<p>501302–ANIMAL BIOTECHNOLOGY (Core – 4 credits)</p>	<p>1. Describe the mechanism of gene therapy and its uses.</p> <p>2. Illustrate how different blood products like antibodies, hormones and vaccines are produced industrially.</p> <p>3. Describe the features of stem cell and their application.</p> <p>4. Differentiate between the different methods</p>

					adopted for generating transgenic animals
				501303- BIOINFORMATICS (Core – 4 credits)	<ol style="list-style-type: none"> 1. Understand biological databases and how to retrieve the information from the databases 2. Differentiate open and proprietary source software 3. Learn about algorithms and matrices in global and local alignment 4. Construct phylogentic tree using multiple sequence alignment 5. Analyze DNA sequencing data using electropherogram viewer, contig assembly software. 6. Find vector contamination in DNA sequences and how to annotate and submit DNA sequences in public domain 7. Understand gene prediction, RNA structure analysis, protein secondary and tertiary structure prediction and motifs with suitable example. 8. Analyze proteome data using MASCOT, X!Tandom, SPC tools. 9. Describe about protein interaction with DNA and RNA by interaction databsases 10. Knowledge about virtual screening. Molecular modelling and dynamics
				501304- LAB V: BIOPROCESS ENGINEERING AND BIOINFORMATICS	<ol style="list-style-type: none"> 1. Describe the basic concepts and theories of the growth kinetics of microbial cells 2. Recognize the fundamentals of fermentation technology. 3. Assess power requirements in bioreactors, modeling of bioprocesses, traditional and new

				<p>(Core – 3 credits)</p> <p>concepts in bioprocess monitoring, and the biological basis for industrial fermentations and cell cultures.</p> <p>4. Use the most common equipment, materials and methods related to fermentation processes, microbial growth and cultivation and sterilization.</p> <p>5. Understand biological databases and how to retrieve the information from the Databases</p> <p>6. Differentiate open and proprietary source software</p> <p>7. Learn about algorithms and matrices in global and local alignment</p> <p>8. Construct phylogentic tree using multiple sequence alignment</p> <p>9. Analyze DNA sequencing data using electropherogram viewer, contig assembly software.</p> <p>10. Find vector contamination in DNA sequences and how to annotate and submit DNA sequences in public domain</p> <p>11. Understand gene prediction, RNA structure analysis, protein secondary and tertiary structure prediction and motifs with suitable example.</p> <p>12. Analyze proteome data using MASCOT, X!Tandom, SPC tools.</p> <p>13. Describe about protein interaction with DNA and RNA by interaction databsases</p> <p>14. Knowledge about virtual screening. Molecular modelling and dynamics</p>
			501305- LAB VI - PLANT	1. Explain the various components of major plant tissue culture media, e.g. macro and micronutrients,

				<p>BIOTECHNOLOGY (Core – 3 credits)</p> <p>growth factors, vitamins, hormones, and other choice of components. 2. Explain the various steps taken to establish and optimize media for particular purposes in particular species. 3. Familiar with sterile techniques, media preparation, DNA extraction methods, and isolation of particular gene. 4. Apply tissue culture techniques for the large scale production of food crops and medicinal plants with economically useful traits 5. Apply knowledge of molecular markers for the identification of traits in various genomes 6. Apply genetic engineering concepts to induce biotic and abiotic stresses in plants 7. Perform a variety of molecular biology techniques, including restriction digestion, polymerase chain reaction, and Biolistic™ transformation</p>
				<p>501501– BIOPHYSICS AND INSTRUMENTATION (Core – 4 credits) MAJOR ELECTIVE COURSES</p> <p>Each unit is designed to accommodate students from multiple disciplines, therefore the students are expected to understand the basic concepts of biophysics and its involvement in biological processes that can be utilized as a parameter for the analysis of biomolecular samples. The student also will study in depth the structure and molecular function of the important biomolecules such as Proteins, Lipids, Carbohydrates, DNA and RNA along with their interaction between each other. The student will be equipped with knowledge of various separation techniques required for different</p>

					<p>biomolecules which could be used in future. The understanding of various detection methods for different biomolecular structures through advanced techniques can give an overall perception of the use of these instruments which can equip the student for future career perspective.</p>
				<p>501502- MICROBIAL BIOTECHNOLOG Y (Major Elective - 4 Credits)</p>	<p>The students shall be able to:</p> <ol style="list-style-type: none"> 1. Acquire the basic concepts and theories of microbial biotechnology and understand the industrial applications of microorganisms. 2. Acquire basic information on practical techniques and approaches commonly used in molecular biology for manipulation of useful microbes/strains and their applications through advanced genome and epigenome editing tools such as engineered zinc finger proteins, TALEs/TALENs, and CRISPR/Cas9 system. 3. Understand the application of microbes and microbial processes in food and healthcare industries (e.g. food processing and food preservation, antibiotics and enzymes production). 4. Explicate and know the importance of genetically modified organisms in environment, food and pharmaceuticals. 5. Construct metagenomic library and functional screening in suitable hosts – tools and techniques for discovery/identification of novel enzymes, drugs.
				<p>501503- IPR, BIOSAFETY AND BIOETHICS</p>	<ol style="list-style-type: none"> 1. Understand the concepts, criteria, and importance of IPR 2. Analyze the basic principles and legal framework

				<p>(Major-Elective-4 credits)</p> <p>of intellectual property rights and its application to biotechnology</p> <p>3. Understood the basic issues of IPR Biosafety and Bioethics. It is expected that they will be more confident to practice and implement all these policies in their future endeavour.</p> <p>4. Create awareness on the Biosafety, Bioethics and patenting of biotechnological processes and products.</p> <p>5. Define biosafety and bioethics in the context of modern biotechnology, demonstrate good laboratory procedures and practices, describe the standard operating procedures for biotechnology research</p> <p>6. Follow Biosafety practices in appropriate Biosafety labs</p>
			<p>501504- DEVELOPMENTAL BIOLOGY (Major Elective-4 credits)</p>	<p>1. Acquire in-depth knowledge on the mechanisms of development, differentiation and growth in animals and plants at molecular, cellular and genetic level</p> <p>2. Understand the advances in stem cell research and therapeutic development</p> <p>3. Learn the tools of developmental biology in recent drug discovery efforts and its utilization in the treatment of human diseases</p>
			<p>501505- HUMAN MOLECULAR GENETICS (Major Elective-4 credits)</p>	<p>1. Understand the importance of Genome Organization in Human Disease and Health.</p> <p>2. Describe wide applications of karyotyping in human disease and inheritance.</p> <p>3. Explain various types of Autosomal and Sex-</p>

				<p>linked inheritance.</p> <p>4. Understand the arrangement of chromosomes in normal and various disease conditions.</p> <p>5. Illustrate role of epigenetics in Human Diseases.</p> <p>6. Understand the molecular basis of various inheritance and metabolic diseases such as Phenylketoneurea, Duchene Muscular Dystrophy, Sickle cell anemia, β-Thalassemia, retinoblastoma, cystic fibrosis, Alzheimer's disease, diabetes,</p>
				<p>501506- FERMENTATION AND BIOPROCESS TECHNOLOGY</p> <p>1. Describe the basic concepts and theories of the growth kinetics of microbial cells</p> <p>2. Recognize the fundamentals of fermentation technology.</p> <p>3. Assess power requirements in bioreactors, modeling of bioprocesses, traditional and new concepts in bioprocess monitoring, and the biological basis for industrial fermentations and cell cultures.</p> <p>4. Understand the differences between aerobic and anaerobic fermentation and the classification of microorganisms based on their respiratory action.</p> <p>5. Use the most common equipment, materials and methods related to fermentation processes, microbial growth and cultivation and sterilization.</p> <p>6. Produce, analyze and interpret data from bioprocesses.</p>
				<p>501507- PHARMACOGEN OMICS (Major Elective-4 credits)</p> <p>The subject content includes interdisciplinary concepts that provide a wide berth to serve students from various fields such as Botany, Zoology, Biochemistry, Microbiology, Veterinary Science, Biotechnology, Nanotechnology, Molecular</p>

					Biology, Structural Biology, Bioinformatics and Bioengineering. The understanding of basic biology along with basic knowledge in computer operation is important to comprehend the use of advanced technology to aid the analysis of pharmacogenomics. The subject has been divided into five units covering basic concepts to computer tools used for applications in the field of Pharmacy and to provide a better idea of the concept dealt.
				501508- EMERGING TECHNOLOGIES IN BIOTECHNOLOG Y	Students will learn history, theoretical basis and basic understanding of latest technologies in the area of biotechnology. They will be able to learn about various applications of these emerging technologies. The students may also learn the applications in depth through assignments and/or seminars.
				501509 - INHERITANCE BIOLOGY (Major- Elective – 4 credits)	<ol style="list-style-type: none"> 1. Understand the Mendalian laws of inheritance such as law of segregation and independent assortment and the importance of allele interaction in inheritance and phenotypic effects. 2. Acquire the tactics in genetic mapping analysis and the method to determine the order of loci on a chromosome and to learn process involved in new combination of alleles emerging through recombination. 3. Gain knowledge on the effects of genes outside the nucleus from organelles such as plastids and mitochondria and role of extra-chromosomal heredity in phenotypic traits acquired by the offspring. 4. Understand the various kinds of genetic mutation

					<p>and their effect such as loss of function and gain of function that leads to genetic disorders.</p> <p>5. Interpret the inheritance pattern of a rare mutant phenotype, sex limited and sex influenced disorders in humans.</p>
				<p>501701- HEALTHCARE BIOTECHNOLOG Y (Non-Major Elective -2 credits) NON-MAJOR ELECTIVE COURSES</p>	<p>This course will provide basic knowledge and research developments at the interface of molecular biology and genetic engineering with special reference to human health care. This course provides students with an interdisciplinary understanding of the fundamental scientific principles, analysis techniques, and research design methodologies that are required for both practice and advanced study in the field of health care biological sciences. This course is expected to impart fundamental knowledge and human health care updates necessary for successful careers in industrial or academic roles.</p>
				<p>501702 - ENVIRONMENTA L BIOTECHNOLOG Y (Non-major Elective- 2 Credits)</p>	<ol style="list-style-type: none"> 1. Explain the importance of environmental protection, diversity in environmental systems, processes and biotechnology. 2. Understand and explain the importance of molecular approaches and control measures to protect environmental insults. 3. Understand existing and emerging technologies that are important in the area of environmental biotechnology in controlling various types of pollution and hazardous materials; 4. Explore the biotechnological solutions to address environmental issues including ethical problems associated with environment, pollution

					management, microbial technology for mining, waste water treatment, renewable energy and bioremediation, and solid waste management; 5. Understand and develop specific case-studies for targeting key areas of environmental Biotechnology; 6. Undertake a range of practical approaches relevant to environmental biotechnology and 7. Bioremediation for clean environment and be able to record, report and discuss data
24.	M.Sc - Zoology	1. The students will be able to engage in noteworthy, self-governing, and creative research in Zoology. 2. The skill based courses support the student to develop business in the field of Zoology. 3. The student acquired significant knowledge to	1. To successful completion of this course students should be able to identify and discuss about the animals 2. To successful completion of the course, the student will be able to explain the basic principles of Zoological Sciences and describe the various modern bio-techniques 3. To successful completion of this course students should be able to critically discuss	Core 1: Animal Diversity – I 509101	The course provides the students a comprehensive knowledge and also exhibit depth and breadth of animal diversity
				Core 2: Animal Diversity – II 509102	The course provides the students a comprehensive knowledge and also exhibit depth and breadth of animal diversity
				Core3: Biochemistry 509103	By the end of the course, students should be able to critically discuss the core principles and topics of biochemistry with experimental knowledge.
				Core 4: Cell and Molecular Biology 509104	The students will acquire fundamental ideas on molecular basis of cellular processes and interrelationship with special emphasize on prokaryotic and eukaryotic systems
				Core 5: Lab I: Animal Diversity-I & II, Biochemistry, Cell and Molecular Biology 509105	The students can acquire practical exposure related to anatomical dissection (cockroach & frog), biochemistry, microbiology and molecular biology experiments
				Elective -1- Animal Cell	The students will gain theoretical knowledge on basic techniques in animal cell culture and to familiarize

		clear the competitive examinations	about the animal behavior importance and its application	Culture Technology 509501	safety procedures needed for tissue culture.
			4. To successful completion of these course students should be able to critically discuss about the clinical laboratory procedures, biochemical analysis, hematology, clinical microbiology and pathology.	Elective -2- Endocrinology 509502	On successful completion of the course, the student will be able to acquire knowledge on the endocrinology.
			5. Students after completing the course can enter the any biological and biomedical research field	Core 6: Animal Physiology 509201	The course provides a comprehensive overview of animal physiology from molecular, cellular and whole animal systems approaches.
				Core 7: Microbiology 509202	At the end of the study, students will develop basic skills on comparative characteristics of microbial pathogens and control their measures.
				Core 8: Immunology 509203	The course will provide basic mechanisms, distinctions and functional interplay of innate and adaptive immunity
				Core 9: Genetics 509204	The students will understand the concepts of mendelian, molecular, evolutionary and genetic concepts.
				Core 10: Lab II: Animal Physiology, Microbiology, Immunology and Genetics 509205	The students will be exposed hands-on towards Animal Physiology, Microbiology, Immunology and Genetics techniques.
				Elective -3 Food Processing Technology 509503	After completing this course students will get to know about the nutritional profile of meat, poultry, fish and sea foods. Gain knowledge on the methods of grading meat Different techniques available to slaughter animal Different methods preserving and Processing. Quality

					control and standardization
				Elective Economic Zoology 509504	-4 Learners would gain an insight into different types of animal behaviour and their role in biological adaptations. Learners would be sensitized to the feelings instrumental in→ social behaviour.
				Core Developmental Biology 509301	11: On successful completion of this course students should be able to critically discuss about the concepts principles and scope of evolution.
				Core 12: Ecology and Conservation Biology 509302	The course provides knowledge on ecological principles/concepts and concise critical thinking to solve problems in ecology
				Core 13: Evolution 509303	On successful completion of this course students should be able to critically discuss about the concepts principles and scope of evolution
				Core 14: Fishery Biology and Aquaculture 509304	On successful completion of this course students should be able to critically discuss the fundamental concepts of fishery biology. Critically discuss the role of aquaculture in world fisheries and recent trends in aquaculture practices.
				Core 15: Lab III: Developmental Biology, Ecology and Conservation Biology, Evolution and Fishery Biology & Aquaculture 509305	On successful completion of this course students should be able to acquire practical knowledge on the developmental biology, biotechnology techniques, identify the commercially important fishes. Familiar in estimation of protein, carbohydrate, lipid and salt content in fishes. Able to estimate the survival and biomass in aquaculture farms.

				Elective-5 Entomology 509505	By the end of the course, students should acquire knowledge that enables them to: identify the key pest insects of the major horticultural crops, understand the pest complexes of the agro-ecosystems; have a broad idea of chemical ecology and tritrophic interaction amongst host plants, pests and their natural enemies.
				Elective :6 Research Methodology 509506	The students will understand the basic concepts of research and methodologies for an appropriate research problem to complete thesis.
				Core 16: Animal Biotechnology 509401	On successful completion of this course students should be able to critically discuss the application of biotechnology in research and industry.
25.	M.Sc Physics (Specialization in Biosensors) Code 522	Application of fundamental physics of material to biology and understanding the developments bioelectronic devices	Students realize direct implications of physics knowledge and techniques in social sustainability.	Classical Mechanics (Code 522101)	Students learn fundamental laws Newton, Kepler D ² -Alembert and Eigen vectors
				Mathematical Physics I (code 522102)	Application of basic mathematical tools to solve physics problems
				Linear and Integrated Electronics (code 522103)	Making familiar with basic electronic devices and circuits using integrated electronic circuits and their applications
				Biosensors-I (Code 522501, Elective 1)	Students learn basics of biosensing types, molecular immobilization methods for sensor surface modification, glucose sensor, DNA and immunosensing
				Advanced Electronics Laboratory - I (Code: 522104)	Learning basic operations in electronic circuits, programming, concept in ICs manufacturing
				Quantum Mechanics I (code 522201)	Students have a deep understanding of approximation methods and mathematical foundations in quantum mechanics

			Mathematical Physics II (code 522202)	Application of Complex analysis theorems to tensors, coordinate transforms and classical variable problems
			Electromagnetic theory (Code 522203)	Learning the concepts of electromagnetic theory and its applications to microwave and plasma physics
			Advanced Electronics Laboratory -II (Code: 522204)	electronic circuits, peogramming, concept in ICs manufacturing
			Biosensors - II (Code 522504, Elective 2)	On successful completion of the course, a student will be able to <ul style="list-style-type: none"> • Understand the basics of biosensor devices • Familiarize with optical and electronic transducers available for biological monitoring • Understanding various affinity biosensors and applications
			NME: Course-Electronics for Daily Life (Code : 522701)	Familiar in handling electrical appliances and electronic gadgets
			Condensed mater physics (code 522301)	Understanding the interplay between classical and quantum mechanical phenomenon, physics of conductors and magntetic materials
			Quantum Mechanics II (Code 522302)	Students have foundations of relativistic effects and quantum mechanics
			Microprocessors and Microcontroller (code 522303)	Architecture, Memory organization and programming of Microprocessors 8085,8086 and microcontroller 8051
			Physics laboratory (Code 522304)	Experiments to explain the concepts of physics
			Bioelectronics (Code 522505, Elective 3)	On successful completion of the course, a student will be able to <ul style="list-style-type: none"> • Understanding the electrical conduction in biological

					<p>materials</p> <ul style="list-style-type: none"> • Basic knowledge in semiconductor interfacing with biomolecules towards bioelectronic devices • Understanding the role of organic and biomolecules in developing molecular electronics • Familiarize with electrodes for monitoring cells and tissues
				Inter departmental course Nanobiosensors (Code 522705)	Understanding the influence of biological molecules on the physical and chemical properties of nano particles
				Employability & Enhancement Practice (code COM001)	
				Material Science (code : 522401)	Understanding the link between different semiconducting material processing and manufacturing
				Molecular Spectroscopy (Code 522402)	Understanding the basic concepts and applications of spectroscopy in molecule characterization
				Nanomaterials (Code 522507)	Qualitatively gain the knowledge about the nanostructured materials in terms of size, morphology, structure, reactivity, and electrical properties for energy and sensor applications.
				Project (code 522999)	Developing skills to do individual project
26.	M.Sc Bioinformatics	To work with confidence and conscience in Fundamentals of Biological problem for instance to	To identify suitable lead molecules against targets responsible towards disease onset and progression that provides a regimen for drug discovery	1. Introduction to Bioinformatics	The student should understand the data structure (databases) used in bioinformatics and interpret the information (especially: find genes; determine their functions), understand and be aware of current research and problems relating to this area.
				2. Biochemistry and Molecular Cell Biology	To understand the structure along with properties, biological functions of lipids, deficiency of vitamins, biological roles heterocyclic bases nucleotides and

		identify the structural and functional aspects of small and macromolecule in a typical biological laboratory and also to be aware of contamination issues.	and development proves		nucleic acids in living organism.
		To understand the concepts and specific features of the subject that is further perceived as application across the disciplines of Computational and Biosciences. In addition to have established knowledge in scientific writing, on how to give a scientific presentation,		3. Mathematics and Statistics for Biologists	Explain the importance of mathematics and its techniques to solve real life problems and provide an alternative paradigm for the limitations of such techniques and validate the results accordingly
				4. Lab-I: DBMS and MYSQL	Understand the services provided by a database management System and also to understand the programming PL/SQL including stored procedures, stored functions, cursors, packages.
				5. Major Elective (General Chemistry)	The course aims in gaining an understanding the reaction mechanism of substitution reaction and how to synthesis the organic compounds by chemical method.
				6. Phylogeny and Phylogenomics	This course covers the basic methods of phylogenetic analysis and their application in fields such as systematics, comparative biology, and molecular evolution. In addition this course will emphasize the logical basis and computational details of various tree-building algorithms and associated methods of hypothesis testing, as well as novel applications of phylogenetic analysis in various fields of biology.
				7. Molecular Modeling and Drug Design	The students can able to understand the concepts of molecular dynamics with constant temperature, pressure, time-dependent properties, solvent effects, concepts of molecular modeling, quantum and molecular mechanics, bond and bond angles in molecular interactions, energy concepts and its importance in drug action
				8. Computational Biology	Students will develop the knowledge of advanced computational biology using synthetic biology and quantum mechanics using different theory.
				9. Programming in Scripting Languages (PYTHON, PERL & R)	Understand the concepts of object-oriented programming as used in Python: classes, subclasses, inheritance, overriding. Understand the basics of OO design, basic searching and sorting algorithms, and knowledge of the basics of vector computation. (k).

		how to evaluate a scientific paper, and research ethics and as well as to apply their learned skills in the techniques within the chosen area of research.		10. Lab-II: Molecular Biology and Biochemical techniques	The students will carry out various types of practical laboratory work (chemical, biochemical and molecular genetics) in a safe way by means of oral and written laboratory instructions and be able to analyze, interpret and present the results with theoretical background in forms of different laboratory reports.
				11. Non Major Elective (Nanotechnology and Advanced drug delivery system)	Understand the concepts of nanomedicine to a focused clinical area of their choice
				12. Principles of Gene Manipulation	To understand the importance of enzymatic processes in maintenance of genetic fidelity, role of various natural DNA alterations in generation of genetic variability and design hypothetical gene cloning experiments.
				13. Genomics and Pharmacogenomics	This course is to give students an understanding of the principles of human genetics and genomics as they apply to improving the problems in drug therapy optimization and patient care.
				14. Lab-IV: Computer Aided Drug Design (CADD)	The students would be able to perform all the computational methods on their own and be able to explain the concepts of molecular modeling, pharmacophore, virtual screening, molecular docking, 3D QSAR etc
				15. Lab- V: Programming in Java and Web Technology	Students will be able to gain practical skills on java, HTML and XML Documents and applied in bioinformatics concepts.
				16. Omics and Systems Biology	Describe the development of Omics technologies, with emphasis on genomics and proteomics and Understand the principles of integrative analysis methods for biological system analysis and interactions.
				17. Lab-VI: Small and	Explain the differences between crystallization of small molecules and macromolecules; choose proper methods

				Macromolecular Crystallography	for protein crystallization. Analyze crystallization experiments under a polarization microscope. Moreover, Characterize X-ray sources and types of detectors, explain a diffraction experiment based on the Ewald construction, process diffraction images, and validate data.
				18. Open Source in Bioinformatics	To access and browse structural data repositories to find out whether appropriate structural information exists, together with the use of structure-quality information.
27.	M.Sc., Botany	Critical thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions from different perspectives. Effective Communication: Speak, read, write and listen clearly	Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives. Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and any one Indian languages.	525101 Plant Diversity – I	Knowledge about the characteristic feature of algal, fungal, lichen and bryophyte species. Understanding on the classification and life cycle of algae, fungi, lichens and bryophytes. Knowledge on the importance and economic value of algae, fungi, lichen and bryophytes.
				525102 Plant Diversity – II	Knowledge about the origin and classification of lower vascular plants. Information about geological scale.
				525103 Microbiology and Plant Pathology	Fundamental knowledge on microbial community and their classification. Knowledge about the plant pathogens, plant diseases and plant defense mechanism against the pathogens and plant disease control.
				525104 Cell Biology and Genetics	Knowledge on the dynamics, structure, functions and mechanisms involved in plant cell. Know the history and concepts of Genetics along with theory of inheritances.
				525105 Lab – I	Research experience in future studies
				525201 Taxonomy of Angiosperms	Know the ideas of botanical nomenclature and classification of higher plants. Understand the principles of plant taxonomy, diagnostic characters and economic importance.
				525202 Plant Anatomy,	Understand the internal structures of various plant parts and their significance.

		<p>in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.</p> <p>Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.</p> <p>Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and</p>		<p>Embryology and Plant Breeding</p> <p>525203 Plant Physiology and Biochemistry</p> <p>525204 Lab – II</p> <p>525301 Evolution, Ecology and Phytogeography</p> <p>525302 Plant Biotechnology and IPR</p> <p>525303 Biotechniques, Biostatistics and Bioinformatics</p> <p>525304 Lab – III</p>	<p>Knowledge on the development of gametes, pollination and fertilization reveals the various steps involved in development of new plant. Knowledge on how to generate the plants with desired traits and improve yield of plants.</p> <p>Knowledge on Plant Physiology, Plant functions and plant growth regulators. Understand the metabolism inside and outside the cell along within plants and its responsible biomolecules.</p> <p>Research experience in future studies</p> <p>Know the origin, theories of evolution, types, specification, adaption in plants and animals. Understand the information about populations and dynamics in ecosystem.</p> <p>The study of scope and importance of plant biotechnology. Having awareness of growth, regulation and genetic determination of gene expression plant studies</p> <p>Understand the biological data collection, statistical analysis, standard deviation and graphical representation. Know the biological database for identification of sequenced DNA using bioinformatics analysis</p> <p>Research experience in future studies</p>
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		<p>accept responsibility for them.</p> <p>Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.</p> <p>Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes</p>			
28.	M.Sc., Microbiology	3. Become expertise in the field of microbiology both in theoretical and practical aspect.	Postgraduate degree in microbiology prepares the students for a career in research and in related to any Microbiological application field.	<p>General Microbiology</p> <hr/> <p>Microbial Biochemistry</p>	<ul style="list-style-type: none"> • Knowledge on historical perspectives of Microbiology • Basic knowledge on different structure of microbes • Ideas on different type of microscope <hr/> <ul style="list-style-type: none"> • Knowledge on metabolism of biomolecules • General Information about nucleic acids, enzymes and vitamins

		<p>4. Will receive elaborate knowledge in the field of Microbiology, Biochemistry, Microbial genetics, Molecular biology, Food, Agricultural, Environmental, Medical and applied Microbiology</p> <p>5. Will be capable of carrying out any Microbiology related tasks in Industries, Medical labs, Research</p>		<ul style="list-style-type: none"> • Clear idea on secondary metabolites and their biosynthetic pathways.
			Microbial Physiology	<ul style="list-style-type: none"> • Knowledge on growth of Microbes • General Information about the microbial metabolism • Clear idea on energy production in microbial cell.
			Lab in General Microbiology, Microbial Biochemistry and Microbial Physiology	<ul style="list-style-type: none"> • Expertise in basic techniques of microbiology and biochemistry. • Knowledge in the analysis and estimation of bio – molecules. • Able to carry out microbial techniques.
			Molecular Biology	<ul style="list-style-type: none"> • Receive elaborate knowledge on nucleic acids • Better understanding of gene expressions • Get thorough knowledge on tumour viruses and oncogenes
			Microbial Diversity and Taxonomy	<ul style="list-style-type: none"> • Students able to differentiate various groups of Microbes • Get knowledge on adaptability of extremophiles • Knowledge about microbial taxonomy.
			Microbial Genetics	<ul style="list-style-type: none"> • Receive elaborate knowledge on mutation • Better understanding about gene regulation • Get thorough knowledge on gene transfer mechanisms in microbes.
			r DNA technology	<ul style="list-style-type: none"> • Students come out with basic ideas on cloning vehicle • Enable them to know about c DNA and amplification products. • Familiar in the construction of recombinant

		labs and etc.			DNA.
				Food Microbiology	<ul style="list-style-type: none"> • Better understanding of cause of microbes in food spoilage • Get information regarding food preservation techniques • Enable them to work food fermentation industries
				Lab in Microbial Genetics, r DNA technology and Food	<ul style="list-style-type: none"> • Trained in isolation of nucleic acids • Become familiar in rDNA technology • Expertise in food Microbiology
				Agriculture and Environmental Microbiology	<ul style="list-style-type: none"> • Acquire knowledge on soil microbiology • Understand the biogeochemical cycles prevail in environment. • Able to know about principles and techniques in waste treatment.
				Microbial Ecology	<ul style="list-style-type: none"> • Better understanding of evolutionary relationship of ecosystem • Get more knowledge on individual ecology • Able to understand the role of microbes in ecology
				Medical Microbiology	<ul style="list-style-type: none"> • Get information about various mechanisms of infection • Knowledge on clinical lab techniques • Acquire knowledge on control measures of diseases
				Immunobiology	<ul style="list-style-type: none"> • Students acquire the information about immunity development • Become an eminent in immunotechnology • Able to understand the immunological reactions

				Industrial Microbiology	<ul style="list-style-type: none"> • Students will get knowledge on strain improvement • Enable them to work in fermentation industry • Students will get idea on upstream and downstream fermentation process
				Lab in Medical Microbiology, Immunobiology and Industrial Microbiology	<ul style="list-style-type: none"> • Get practical knowledge in specimen collection and processing • Become technically expert which will helpful to work in clinical laboratory • Able to identify clinical pathogens
				Algal Biotechnology	<ul style="list-style-type: none"> • Better understanding importance of algal biotechnology • Get information about microalgae • Enable them to work algal industries
				Microbial Technology	<ul style="list-style-type: none"> • Acquire Knowledge on food product analysis • Impart knowledge of preservation technology. • Knowledge on quality analysis of marine food products
				Extremophiles	<ul style="list-style-type: none"> • Acquire Knowledge on extremophiles • Impart knowledge biotechnological applications of extremophiles. • Knowledge about adaptations in extremophiles.
				Project Report and Viva voce	<ul style="list-style-type: none"> • Knowledge on research methodology • Basic knowledge on different instruments • Ideas on research review
29.	M.Sc Biomedical Sciences	drug delivery. The students will have skills to write dissertation, interpretation and presentation of biological data	Enable students to acquire basic laboratory skills in Biomedical Science. Industrial training: Two month (summer training) and six month (live research projects). Development	ANATOMY AND PHYSIOLOGY (Theory)	<ul style="list-style-type: none"> ➤ Acquire knowledge on the cells and tissues. ➤ Understand the structure and functions of various human body systems. ➤ Acquire knowledge about contribution of each organ system to the maintenance of homeostasis. ➤ Understand the physiological processes accurately with relevant scientific terminology and nomenclature leading to develop more consciousness towards a healthy body.

		<p>On successful completion of the programme The students will have through knowledge in the human system and function for personnel health care. The students will be thorough in assessment of patients through handling the human disease diagnosis kits. The students will have complete exposure on the organization and effective function of hospitals. The students will have through knowledge in the forensic science and</p>	<p>analytical and cognitive skills with overall personal development. Social Involvement Program for inculcating leadership, community awareness, and social-sensitivity. Allow flexibility at the end of the first year to other departmentally-based courses. Provide exposure to the most recent advances in selected areas of biomedical science. Opportunity to carry out a research project under supervision To enhance the discovery of unexplored traditional system of medicines to bring to a practice for the treatment of newer diseases</p>	<p>MEDICAL GENETICS (Theory)</p>	<ul style="list-style-type: none"> ➤ Acquire knowledge on the family history. ➤ Understand the sex-linked inheritance such as colour blindness and haemophilia. ➤ Acquire knowledge about drug response and metabolism. ➤ Understand the gene mutations in human. ➤ Understand the various genetic disorders.
				<p>BIO INSTRUMENTATION AND ANALYTICAL CHEMISTRY (Theory)</p>	<ul style="list-style-type: none"> ➤ Basic concepts of biopotential electrodes. ➤ Polarization and functions of electrodes. ➤ Leads system of ECG, EEG, EMG, ERG and Einthoven's triangle of ECG. ➤ Electrical and nonelectrical physiological measurements. ➤ Indirect and direct methods of blood pressure and blood flow measurements. ➤ Principles and applications of different centrifugation. ➤ Molecular basic instrumentation chromatography, Electrophoresis, spectroscopy. ➤ Radioactive isotopes and counting. ➤ Effect of radiation on biological system. <p>Applications of biosensors.</p>
				<p>INTRODUCTION to BIOINFORMATICS</p>	<ul style="list-style-type: none"> ➤ The student should be able to understand basic research methods in bioinformatics. ➤ The student will choose biological data, submission and retrieval it from databases and design databases to store the information. ➤ The students will be able to demonstrate the most important bioinformatics databases, perform text- and sequence-based searches, and analyze the results in light of molecular biological knowledge ➤ The students will be able to experiment pair wise and multiple sequence alignment and will analyze the secondary and tertiary structures of protein sequences. ➤ The student should understand the data structure

		artificial organs. The students will have expertise to assess the drug discovery and			<p>(databases) used in bioinformatics and interpret the information (especially: find genes; determine their functions), understand and be aware of current research and problems relating to this area.</p> <p>The student should be able to carry out gene and protein expression patterns and modelling cellular interactions and processes.</p>
				MEDICAL BIOCHEMISTRY (Theory)	<ul style="list-style-type: none"> ➤ Acquire knowledge on the biomolecules and their importance in normal functioning of living organisms. ➤ Understand the metabolic pathways linked with pathological conditions ➤ Understand the concept of genomics, proteomics, transcriptomics, and metabolomics. <p>Understand the role of platelets in hemostasis and thrombosis and basis of immune response.</p>
				CLINICAL MICROBIOLOGY (Theory)	<ul style="list-style-type: none"> ➤ Learn opportunities in the basic principles of clinical microbiology, infectious disease and bacteriology techniques. ➤ Understand the importance of pathogenic bacteria in human disease with respect to infections of the respiratory tract, gastrointestinal tract, urinary tract, skin and soft tissue. ➤ Understand the salient features of antigen antibody reaction and its uses in diagnostics and various other studies. ➤ Understand the interactions between viruses and the host immune system and vaccine strategies.
				CLINICAL PATHOLOGY (Theory)	<ul style="list-style-type: none"> ➤ Acquire knowledge on the cytological techniques and Graft-versus-host disease. ➤ Understand the mode of transmission of diseases and its diagnosis. ➤ Understand the pathogenesis of renal and gastrointestinal tract diseases. ➤ Understand the necessity of Hemostatic disorders and abnormalities associated with menstrual cycle.

					➤ Acquire knowledge on Pyogenic and tuberculous meningitis.
				PHARMACEUTICAL CHEMISTRY (Theory)	<ul style="list-style-type: none"> ➤ About inorganic and organic compounds. ➤ On electrolytes used for replacement therapy. ➤ The uses of antitubular, anti-inflammatory and anti-neoplastic drugs. <p>Identification tests for cations and anions as per Indian Pharmacopoeia.</p>
				PHARMACOLOGY AND TOXICOLOGY (Theory)	<ul style="list-style-type: none"> ➤ Understand the fundamental principles of pharmacology and toxicology, their mechanism of action and the factors. ➤ Acquire knowledge on the basic principles of central and peripheral neurotransmission. <p>Understand the mechanisms of action of drugs within the following fields: anesthetics, cardiovascular pharmacology, respiratory pharmacology and gastrointestinal pharmacology.</p>
				BIOMATERIALS AND TISSUE ENGINEERING (Theory)	<ul style="list-style-type: none"> ➤ Acquire knowledge on the biomaterials, implant and tissue engineering. ➤ Understand the desirable and undesirable reactions of the body with implanted materials. <p>Acquire knowledge about tissue engineering and bioactive scaffold.</p>
				FORENSIC SCIENCE (Elective -I)	<ul style="list-style-type: none"> ➤ Acquire knowledge on the forensic laboratories and development. ➤ Understand the duties of forensic scientists. ➤ Acquire knowledge about research methods and ethical issues in psychology
				MEDICAL ONCOLOGY (Elective -I)	<ul style="list-style-type: none"> ➤ About Mechanism of deregulation of cell cycle during cancer. ➤ Relationship between oncogene products and growth factors ➤ Mutations causing loss of cell cycle control <p>Critical analysis of cancer therapy and vaccines</p>
				HOSPITAL MANAGEMENT	<ul style="list-style-type: none"> ➤ Understand the importance of management and different bodies of management thought overall

				<p>AND BIOSAFETY [Elective-II)</p>	<p>support and utility services management.</p> <ul style="list-style-type: none"> ➤ Acquire knowledge on the epidemiological basis for healthcare management and management development towards development of professional management of Indian hospitals. ➤ Understand the organization of the hospital, structure, types, governing body, hospital committee and hospital functionaries. ➤ Learn opportunities in the hospital waste management, waste disposal management, Biosafety regulatory frame work for GMOs, bioethics and its socio economic impact.
				<p>BIOIMAGING TECHNOLOGY [Elective-II)</p>	<ul style="list-style-type: none"> ➤ Understand the imaging concepts that characterize the quality of imaging techniques ➤ Acquired knowledge about the principles of image formation, capture and display of ultrasound and X-ray. ➤ Understand and describe the mechanisms of tomography, MRI and NMR spectroscopy
				<p>MOLECULAR ADVANCED DIAGNOSTICS [Elective-III</p>	<ul style="list-style-type: none"> ➤ Acquire knowledge on the method of collection, transport, processing of samples and interpretation. ➤ Understand about the Real time PCR and Multiplex Ligation-dependent Probe Amplification (MLPA) analysis. ➤ Understand the role of Bioinformatics applied to sequencing and microarrays. <p>Understand about the role of Immunotherapy and immunodiagnostics</p>
				<p>ARTIFICIAL ORGANS [Elective-III</p>	<ul style="list-style-type: none"> ➤ Acquire knowledge on the evaluation of artificial organs. ➤ Understand the artificial organs and their mechanisms. ➤ Acquire knowledge about artificial lungs and blood gas exchange devices. <p>Understand the functions of artificial blood and</p>

					artificial liver.
				ANATOMY, PHYSIOLOGY & MEDICAL GENETICS (Practical-I)	<ul style="list-style-type: none"> ➤ Acquire knowledge about the identification and anatomical position of bones. ➤ Acquire knowledge on structure and functions of internal organs. ➤ Acquire knowledge on mitosis cell division. ➤ Understand the simple Mendelian traits.
				BIO INSTRUMENTA TION AND ANALYTICAL CHEMISTRY (Practical-II)	<ul style="list-style-type: none"> ➤ At the end of this course student will be able to use instruments such as UV-VIS, Fluorescence and CD spectrophotometer. ➤ They will be able to analyze samples using column chromatography, thin layer chromatography and HPLC. ➤ They will also learn to study the biomolecular interactions using the spectroscopic techniques, analyzing secondary structure of a biomolecule etc.
				MEDICAL BIOCHEMISTRY AND CLINICAL MICROBIOLOG Y (Practical-III)	<ul style="list-style-type: none"> ➤ Practical approach in biochemistry and microbiology. ➤ The separation techniques. ➤ Bacterial staining and identification. ➤ Biomedical waste management
				CLINICAL PATHOLOGY (Practical - IV)	<ul style="list-style-type: none"> ➤ Tissue processing. ➤ Cytological techniques. ➤ Packed cell volume, erythrocyte sedimentation rate and differential leukocyte count. ➤ Role of microbial infections.
				PHARMACEUTI CAL CHEMISTRY, PHARMACOLO GY AND TOXICOLOGY (Practical - V)	<p>On successful completion of pharmacology and toxicology practical, students will be able to acquire knowledge on the:</p> <ul style="list-style-type: none"> ➤ Animal model studies. ➤ Effect of drugs. ➤ Detection of pesticides. <p>Acute toxicity.</p>

				BIOMATERIALS AND TISSUE ENGINEERING (Practical - VI)	<ul style="list-style-type: none"> ➤ Understand sterilization techniques and media preparation. ➤ Prepare primary cell culture and secondary cell growth. Execute the cytotoxicity assays and staining techniques.
30.	M.Sc. Oceanography and Coastal Area Studies	The graduates of Oceanography and Coastal Area Studies program will: Demonstrate understanding of fundamentals of oceanography, including Physical, Chemical Biological and Geological oceanography. Master laboratory and theoretical techniques necessary to contribute to knowledge in the research area. Have ability to conduct independent	Oceanographic work is often multidisciplinary in character, involving the collaboration of many types of scientists, mathematicians, engineers, technicians and policy makers.	Geological Oceanography	The students able to study the topography, structure and geological processes of the ocean floor They get aware of geophysical technologies to examine the makeup of the ocean bedrock and the natural processes of rock movement.
				Physical Oceanography	Students able to study the physical properties and dynamic processes of the oceans and also studies the interaction of the ocean with the atmosphere. With satellite data, students can able to understand not only how the ocean behaves at a given point in time, but also how the ocean changes and fluctuates.
				Chemical Oceanography	Students able to study the chemical properties and dynamic mixing system, in which composition changes take place partly from internal processes and partly as a result of the circulation and mixing of water masses. Understands the concept of primary production, Knows the major primary producers in the Ocean, can describe the fate of primary production in the ocean, understand Redfield Ratios and be able to use them in identifying limiting nutrients.
				Biological Oceanography	Students able to define the major life forms in the sea and also describe the characteristics. They able to explain how marine organisms influence cycling of bio elements and describe the prominent characteristics of the primary marine habitats.
				Marine Ecology and Zoogeography	Learn and gain knowledge on the characteristics of community ecology and the adaptation of animals. Awareness on the marine biodiversity and importance
				Marine Pollution, Environment and	This course helps the students to prepare for their careers in academic programs and research centers.

		research projects. Demonstrate ability to communicate concepts and results to expert and non-expert audiences. Demonstrate science teaching skills.		Health	And also able to work in consulting firms by providing them with an in-depth understanding of causes, consequences and methods of assessment of marine pollution.
				Applications of Remote Sensing and GIS in Oceanography	They can characterize the natural features or physical objects on the soil and wetland. They get idea about remote sensing platforms and remote sensors. They get knowledge on GIS technology which can be used for scientific investigations, resource management, and development planning.
				Fish and fisheries	Students able to classify the fishes. They obtain knowledge on the techniques of identifying fishes. They have sound knowledge on the conservation and management of marine fishery
				Aquaculture	Students were able to identify the potentials and socio-economic issues of aquaculture. They gain knowledge about selection of suitable site for fish farm, design and construction. Accomplish knowledge about water quality, stocking, feed and disease management in aquaculture
				Post Harvest Technology	Students were able to handle and transport of fish from onboard and fresh fish preservation. They get awareness about fish processing, chemical and microbial quality of seafood during processing and storage. Acquire knowledge about methods of freezing and storage of processed fish. Know about seafood packaging materials and methods of packing and transport. Aware about seafood quality, national and international regulatory agencies for quality assurance and monitoring
				Research Methodology	Learns to develop an understanding of the basic framework of research process, various research designs and techniques. Recognizing the various source of information for literature review and data collection. Understands the ethical dimensions of conducting research.

				Marine Biodiversity And Conservation	They gain knowledge on scientific information and knowledge regarding the current status of marine biodiversity, various values associated with it and the necessity for its conservation. They can promote conservation of marine biodiversity and its sustainable use appropriately.
				Coastal Zone Management	Students able to manage coastal areas to balance environmental, economic, human health, and human activities. Coastal management encourages the students about habitat protection through land-use planning, habitat restoration, and state and local permitting programs that regulate development impacts to coastal habitats
				Marine Resources	Students get idea on fisheries resource management and EEZ. They get awareness about drugs from the marine based organisms.
				Coastal Disaster Management	They get awareness of various types of Disasters and the Challenges posed by Disasters. They able to understand the Impacts of Disasters and Risk Management strategies.
				Marine Biofouling, Prevention And Management	Students get idea on biofouling and corrosion mitigation techniques. They get sound knowledge on macro and micro fouling organisms and its consequences.
31.	M.Sc. Marine Biology (5 Year Integrated)	The graduates of Marine Biology program will: Explain key concepts and terminology in biology/ marine biology Describe	Marine Biology students are trained in the fields of General Oceanography, Fishery Biology, Fish Technology, Aquaculture. Besides they are also trained in remote sensing applications.	Physical Oceanography	Students able to study the physical properties and dynamic processes of the oceans and also studies the interaction of the ocean with the atmosphere. With satellite data, students can able to understand not only how the ocean behaves at a given point in time, but also how the ocean changes and fluctuates.
				Chemical Oceanography	Understanding the concept of chemical and physics properties of sea water. Knowledge on the basic structure of water molecules and ionic composition. Gain the knowledge on interaction of major and minor elements with marine organisms.

		typical marine habitats and associated flora and fauna. Understand interactions between marine organisms and the environment, and adaptations of marine organisms. Understand the dynamics and structural processes in marine populations and communities		Biological Oceanography	They get knowledge on Plankton and Organic production in ocean. Students will be aware of biomass, growth and productivity of organisms in the marine environment.
				Ecology and Zoogeography	Understand the influence of abiotic and biotic factors on marine organisms and populations. Characteristics of marine organisms and population.
				Invertebrate	Describes the variety of invertebrate organisms and explains their evolutionary origin and diversification. Investigate invertebrates in laboratory and field conditions, and identify major taxonomy. Understand the requirements for collection and short term maintenance of invertebrate species.
				Vertebrate	Acquire knowledge about the geological time scales and theories on the origin of vertebrates. Understand the classification and evolution of jawless and primitive vertebrates and connecting link (Dipnoi). Know about the classifications and adaptations of sea snakes, sea turtles, saltwater crocodiles and marine birds. Recognise the general characteristics of mammals including respiratory, circulatory adaptations of cetaceans and their comparative anatomical skin derivative.
				Cell and Molecular biology	Understand the types, principles and mechanisms of different microscopes. Know the organization and functions of mitochondria and other cell organelles. Acquire knowledge about the significance of cell division and significance of mitosis and meiosis. Know the structure and function of DNA and RNA. Aware on the Genetic code including transcription and translation.
				Developmental Biology	Understand about the fertilization, gametogenesis and oogenesis. Aware about the development of eye, ear and heart, placentation in mammals. Knowledge on concept of amphibian metamorphosis. Aware about the hormonal control of amphibian metamorphosis, types

					and physiology of placentation in mammals. Understand about the regeneration in amphibians and planarians.
				Biochemistry	Students learn about the biological processes which take place in cells and organisms. They know the functioning of various body processes and physiology by uses of bio-molecules.
				Coastal and brackish water Aquaculture	Able to identify the potentials and socio-economic issues of aquaculture. Gain knowledge about selection of suitable site for fish farm, design and construction. Accomplish knowledge about water quality, stocking, feed and disease management in aquaculture. Learn about brood stock rearing, induced breeding, hatchery production of fin and shell fish seeds and larval rearing. Aware about aquaculture extension, role of government and non government organisation in fisheries and aquaculture extension activities.
				Animal physiology	By studying this paper, the students can conduct research in a variety of areas. These can include reproductive physiology, clinical and molecular endocrinology (dealing with hormones), renal physiology (dealing with the kidneys), toxicology (the study of poisons) and molecular genetics (the study of hereditary traits).
				Fish and Fisheries	Students able to classify the fishes. They obtain knowledge on the techniques of identifying fishes. They have sound knowledge on the conservation and management of marine fishery.
				Immunology	The students will be able to describe immunological response and how it is triggered and regulated. The students will be able to describe the roles of the immune system in both maintaining health and contributing to disease.
				Genetics	The students get idea about genetic information to diagnose, treat, prevent and cure many illnesses. The get idea about genetic problem caused by one or more

					abnormalities formed in the genome.
				Application of Remote sensing &GIS	They can characterize the natural features or physical objects on the soil and wetland. They get idea about remote sensing platforms and remote sensors. They get knowledge on GIS technology which can be used for scientific investigations, resource management, and development planning.
				Evolution	Understands the process of evolution and Geological time scale. Understand the Lamarckism, Neo Lamarckism, Darwinism, Neo Darwinism and Modern Synthetic Theory Fossil and Fossilization, Living fossils, Dating of Fossils, Mesozoic reptiles. Understands the Species concept, Isolating mechanisms, Mimicry and colouration.
				Biotechnology	Understand about techniques and fundamentals behind gene cloning and its application. Developing marker-assisted selection technologies.
				Post-Harvest Technology	Understand about the handling and transport of fish from onboard and fresh fish preservation. Aware about fish processing, chemical, sensory and microbial quality of seafood during processing and storage. Acquire knowledge about methods of freezing and storage of processed fish. Know about seafood packaging materials and methods of packing and transport. Aware about seafood quality, national and international regulatory agencies for quality assurance and monitoring.
				Marine Microbiology	By studying this paper, the students get opportunities in various fields like healthcare organizations, forensic science laboratories, environmental organizations, higher education institutions, food and drink, publicly funded research organizations, pharmaceuticals and many other industries.
				Environmental impact	The students get knowledge on collection of primary and secondary data for environmental Impact

				Assessment	Assessment in particular area. They get knowledge on marine environment and biological indicators.
				Research Methods in Marine Biology	Learns to develop an understanding of the basic frame work of research process, various research designs and techniques. Recognizing the various source of information for literature review and data collection. Understands the ethical dimensions of conducting research.
				Marine Biodiversity And Conservation	Understanding the marine biodiversity and conservation. Marine conservation policies and Legislations.
				Coastal Zone Management	Learning about coastal zone and its importance. Understand the sustainable development of coastal and marine areas. Understand the reduce vulnerability of coastal areas and their inhabitants to natural hazards.
				Marine Resources	Students get idea on fisheries resource management and EEZ. They get awareness about drugs from the marine based organisms.
				Marine Pollution	Various marine pollutants and its ecological impacts. Impact of mining and dredging of marine environment
				Coastal Disaster Management	The Students gets the understanding of the basic concepts in Coastal Disaster Management and its mitigations. They study definitions and Terminologies used in Disaster Management. They also aware of various types of Disasters and the Challenges posed by Disasters. They are able to understand the Impacts of Disasters and Risk Management strategies
				Fermentation Technology	The students will be able to evaluate factors that contribute in enhancement of cell and product formation during fermentation process. Understand the fermentation techniques and applications.
				Aquarium Keeping	At the end of the course the students will be able to gain knowledge about aquarium preparation and maintenance and its identification. Understand breeding behavior of aquarium fishes.

				Mariculture	They get sound knowledge on selection of species for successful mariculture. They get advanced idea about open sea cage culture and recent trends.
				Marine Biofouling, Prevention And Management	Students get idea on biofouling and corrosion mitigation techniques. They get sound knowledge on macro and micro fouling organisms and its consequences.
32.	M.Sc., Applied Geology	Develop a fundamental understanding of the genesis, occurrence and environmental factors that control the natural resources and determine the economic status. Understanding the origin, evolution and interior of the earth and its processes and also the study encompasses a vast array of geological phenomenon. Develop strategies for growing diversified	There is no question that training students in these areas will be responsive to the growing needs of industry. With the growing societal demands, there is an increasing awareness to understand the significance of geosciences encompassing Geology, Geography, Meteorology, Oceanography, Climatology and Astronomy. The development of a nation is mainly based on the capability in exploration and capacity in exploitation of natural resources. The developed	464101 – GENERAL GEOLOGY	Gain a greater insight into the enormous knowledge of Geologic time and the evidences that support this claim and familiarize the scope and importance of Geology. Learn to implement the knowledge in the basic evidences and ideas those support the theory of Plate Tectonics. Understand how the plate tectonic system works, including the role of the different types of plate boundaries and the forces that help to drive the system and also realize mhow the plate tectonic system has helped to shape the Earth's surface. Understand the minerals, rocks and Sediment nature can able to identify the common Rocks and Minerals. Recognize the Mineral and Hydrocarbon provinces of India. Student’s exploration strategies, the natural resources in the major areas of study within the discipline of Water, Soil, Forest, Biomass and Marine resources. Analyze, explain, locate, and manage the Disaster Events.
				464102 - ADVANCED CRYSTALLOGRAPHY AND MINERALOGY	Understand the basic crystal-chemical properties of minerals and how variability in these properties relates to physical and optical characteristics as well as the formation and stability of minerals in igneous, metamorphic, and sedimentary environments. Recognize and quantify the physical and optical properties of minerals. Microscopic thin section study and identity characterize common rock-forming minerals. Extract information about the conditions of formation and subsequent history of a mineral from its properties

		<p>demand for more metals, energy resources, mineral fuels, fossil fuels with the sustainable development and environmental protection. Use the modern technology like Remote Sensing and GIS to improve the invention, development, expansion and overall well-being of mankind; and to promote the interdisciplinary development of environmentally sensitive, sustainable systems. Improve understanding</p>	<p>countries have understood this importance, hence they become advanced. The development of indigenous expertise in geo-science is the immediate need of our country in order to make our country self-reliant in all growing needs in domestic, industries, science technology and environmental protection. The students with graduate and postgraduate qualifications were mainly absorbed in the Geological Survey of India (GSI), Oil and Natural Gas Corporation (ONGC), Atomic Mineral Division (AMD), Central groundwater Board (CGWB), Tamilnadu Water supply Department (TWAD), Public Works Department</p>		<p>and its presence in a rock.</p>
				<p>464103 - STRATIGRAPHY AND PALAEOONTOLOGY</p>	<p>The course begins with primarily biological issues (basic evolutionary theory, functional morphology, and overview of major invertebrate groups and their ecologies), with related geological concepts (fossil preservation, taphonomic bias, in situ vs. transported assemblages). The course then adds larger geological principles to the foundation (stratigraphy, effects of sedimentary processes and sedimentation rates on interpretation of evolution in the fossil record). It focus specifically on settings and time periods that the students will encounter on our field trips, emphasizing the combined use of sedimentological characteristics and fossil content for interpreting paleoenvironments and facies changes. Assessment is through a combination of in-class exams and lab/field exercises. Lab exercises include fossil identification and ecological interpretations based on fossil morphology, as well as lithostratigraphic and biostratigraphic correlation. In the field, students describe and measure sections, and record data on fossil assemblages. Follow-up exercises after the field trips include construction of stratigraphic columns based on student-collected data, interpretation of environmental changes recorded in the examined sections, correlation of their sections with published data.</p>
				<p>464104 - REMOTE SENSING AND GIS</p>	<p>Students will be able to recognize and explain at basic level fundamental physical principles of remote sensing, including the electromagnetic spectrum; the emission, scattering, reflection, and absorption of electromagnetic (EMR) radiation; how EMR radiation interactions vary across a limited number of substances, geometries, and temperatures; and geometric properties of photographs and imagery.</p>

		<p>of Physiography, Geomorphology, Geochemistry, and Ecology in order to provide model systems for research and production systems for commerce, and to contribute to understanding and conservation of the natural resources. Improve the prevention and remediation strategies for application in the world's coastal zone, where multiple uses including salt water intrusion, wastewater disposal and recreation. To continue to</p>	<p>(PWD), State Geology Department, State Mining department in collection office, State and Central Universities apart from the private companies.</p>		<p>Students will be able to recognize and explain basic computational properties of remote sensing data acquisition, storage, and image processing. Students will be able to identify key applications of land, marine, aquatic, and atmospheric remote sensing and relate them to the properties of historical, current, and planned remote sensing instruments, approaches, and datasets.</p>
				<p>464105 – STRUCTURAL GEOLOGY AND GEOTECTONICS</p>	<p>Interpret the relative timing of formation of structures, the kinematics of deformation, and the progressive deformation histories in these regimes. Interpret stress regimes and fluid pressure histories during continental deformation. Predict the geometry and location of structures at depth or in areas of poor outcrop.</p>
				<p>464201 – IGNEOUS PETROLOGY</p>	<p>This course presents a broad review of igneous rocks, emphasizing their tectonic associations, interrelationships and petrogenesis as well as an introduction to the principles that govern mineralogical mineral assemblages and reactions in metamorphic rocks. After successful completion of this course you will have an integrated understanding of the range, composition and petrogenesis of the major igneous and metamorphic rock groups and will be able to identify them in thin section and deduce their tectonic association and mode of origin. Understand the review metamorphic facies, facies series and their distribution, as well as the thermal and tectonic controls on metamorphism. Students will become familiar with the key skills used to aid the interpretation of metamorphic rocks.</p>
				<p>464202 - METAMORPHIC PETROLOGY</p>	<p>This course presents a broad review of igneous rocks, emphasizing their tectonic associations, interrelationships and petrogenesis as well as an introduction to the principles that govern mineralogical</p>

		<p>provide first class education at post graduate in universities in which teaching is delivered by research-active academic staffs to equip graduates for careers in Geosciences and a wide range of related fields. To strengthen the fundamental research in the department through the establishment of critical mass of top-quality research teams by magnetize increased funding from external sources. To establish collaborations</p>			<p>mineral assemblages and reactions in metamorphic rocks. After successful completion of this course you will have an integrated understanding of the range, composition and petrogenesis of the major igneous and metamorphic rock groups and will be able to identify them in thin section and deduce their tectonic association and mode of origin. Understand the review metamorphic facies, facies series and their distribution, as well as the thermal and tectonic controls on metamorphism. Students will become familiar with the key skills used to aid the interpretation of metamorphic rocks.</p>
				<p>464203 - SEDIMENTARY PETROLOGY</p>	<p>Demonstrate proficiency in common practical skills in Sedimentary Geology. Interpret the processes responsible for the deposition of the sediment from the nature of the sediment and sedimentary structures present within the sedimentary rock. Understand the depositional environment of a sedimentary rock package based on recognition of facies associations. Recognize and explain the methodology of carrying out scientific research in the field of sedimentary geology.</p>
				<p>464204 - GEOMORPHOL OGY</p>	<p>Describe the morphology of the landscape and related processes in areas influenced by fluvial, glacial, periglacial, aeolian, coastal, and arid systems. Describe major scientific ideas and theories about the development of the landscape. Critically analyze geomorphologic issues in a scientific context at local, regional and global scales. Use topographic maps, aerial photographs, and other quantitative techniques to analyze landforms and processes of land formation. Use basic techniques to identify, measure, and analyze landforms and processes of land formation.</p>

		and develop new research links with in the division of geo-sciences in the Colleges/Universities.		464301 – ECONOMIC GEOLOGY	An understanding of the socio-economic drivers for mining and exploration activities. Detailed knowledge and the ability to interpret the strength, of the various genetic models associated with each class of mineralization; with emphasis on the mineralogy, geology and geochemical controls on mineralization of ore deposits. An understanding of the roles of a geologist in the mining and exploration industries.
				464302 - HYDROGEOLOGY	Understand the components of hydrologic cycle. An ability to calculate the average rainfall over a watershed. An ability to calculate evaporation and evapotranspiration. Understand measurement of ground water exploration strategy.
				464303 - GEOCHEMISTRY	This course focuses on the chemistry of the natural world and the chemical evolution of the Earth over geological time. We will discuss practical and theoretical geochemistry, with an emphasis on how chemical principles are used to study Earth Sciences.
				464702 - ENGINEERING GEOLOGY, MINING GEOLOGY, ORE PROCESSING AND ENVIRONMENTAL GEOLOGY	Capable to identify engineering properties of rocks and soft sediments assist with geological investigations for dams, reservoirs, tunnels, bridges, foundations and shore line engineering constructions and to acquire knowledge on mining geological investigations and mining operations.
				464703 – PETROLEUM GEOLOGY	The purposes and principles of common seismic data processing, imaging and analysis methods employed in the petroleum industry. The main technical issues in exploring onshore and offshore petroleum reservoirs using seismology, such

					<p>as in assessing the suitability of using common seismic methods for petroleum targets.</p> <p>Using various seismic techniques to enhance signals and suppress noise in reflection seismic data to help detecting hydrocarbon reservoirs.</p> <p>Applying borehole geophysics and well logging techniques to tie with seismic and geological data to help achieving the exploration objectives.</p>
				464704 - NATURAL HAZARDS AND MANAGEMENT	To evaluate natural disaster and valuable resources such as fish and minerals are considered to be common property and are in high demand for coastal dwellers for subsistence use, recreation and economic development. The conceptual basis of Integrated Coastal Zone Management (ICZM) and trace their relationships to the ecosystem approach.
				464999 - PROJECT WORK	Project Dissertation will be carried out by the student themselves with the interest of the student as well as the interest of the faculty with mutual understanding, expertise and interest. The students continuously evaluated the work carried out day to day for further events. Finally the faculty will be given instruction how to write the dissertation with different components, topics and the material, text, problems to be addressed in each assignment title. The dissertation will consist of Introduction, Review of Literature, Materials and Methods, Results and Discussion, Summary and Conclusion, References/Bibliography. Of course, appropriate statistical tools must be followed for the assessment of data. A proper preparation of graphs, diagrams and flow charts must be included in the dissertation. Appendix may also be taken into consideration if necessary.
33.	M. Sc., Fisheries Science	1-The students will be talented to connect in	1-To prepare the student with fishery talent and practitioners to	Taxonomy of Fish and Shellfishes	<p>1-The Student learned the significant knowledge about the Fisheries Science</p> <p>2-The Student will be able to understand the Taxonomy of Fish and Shellfishes</p>

	<p>notable, self-governing, and original research in the field of fishery biology and aquaculture.</p> <p>2-After completion of the courses students are competent enough to setup aquaculture, fish processing and fish by product business.</p> <p>3-Students are able to support fish production, improving the welfare of fishermen, promoting export earnings and providing food security.</p> <p>4-The student acquired significant knowledge to</p>	<p>develop the nation.</p> <p>2-To teach the student with a broad understanding of fish and their interactions with different ecosystem.</p> <p>3-To make a student spirit of modernism and practices in the field of fishery science and capable of independently engaging in fishery techniques, that helps the students to support for improving the socio-economic status of fisherman community.</p> <p>4-To provide in-depth knowledge and recent to the students in the field of aquaculture that will give confidence to the student for self-employment.</p> <p>5-To enable the students for preparing various government and private sectors competitive examinations</p>	Freshwater Fisheries and Management	<p>1-The Student learned the significant knowledge about the Fisheries Science.</p> <p>2-The Student will be able to understand the Freshwater Fisheries and Management.</p>
			Coastal and Marine Fisheries Management	<p>1-The Student learned the significant knowledge about the coastal and marine Fisheries.</p> <p>2-The Student will be able to understand the Coastal and Marine Fisheries Management.</p>
			Fish Diseases and Health Resources Management	<p>1-The Student learned the significant knowledge about the different Fish Diseases</p> <p>2-The Student will be able to understand the Fish Diseases and Health Resources Management.</p>
			Lab: I-Taxonomy of Fish and Shellfishes, Freshwater Fisheries and Management, Coastal and Marine Fisheries Management and Fish Diseases and Health Resource Management	<p>The Student learned the significant knowledge and gain in depth knowledge, field and practical exposure in the different fields especially, Taxonomy, fisheries management and Fish Diseases and their health resources management</p>
			Aquatic Pollution and Coastal Zone Management (E)	<p>1-The Student learned the significant knowledge about the Pollution</p> <p>2-The Student will be able to understand the Aquatic Pollution and Coastal Zone management</p>
			Anatomy and Biology of Fishes (E)	<p>1-The Student learned the significant knowledge about the Fisheries Science</p> <p>2-The Student will be able to understand the Anatomy and Biology of Fishes</p>
			Aquaculture and Wetland Management	<p>1-The Student learned the significant knowledge about the aquaculture Science</p> <p>2-The Student will be able to understand the Aquaculture and Wetland Management</p>

		clear the competitive examinations in the field of fishery science.		Fish Genetics and Breeding Technology	1-The Student learned the significant knowledge about the breeding technology 2-The Student will be able to understand the Fish Genetics and Breeding Technology
				Ornamental Fish Farming and Aquarium Management	1-The Student learned the significant knowledge about the ornamental Fisheries Science 2-The Student will be able to understand Ornamental Fish Farming and Aquarium Management
				Fish Processing Technology	1-The Student learned the significant knowledge about the Fisheries Science 2-The Student will be able to understand Fish Processing Technology
				Lab: II- Aquaculture and Wetland Management, Fish Genetics and Breeding Technology, Ornamental Fish Farming and Aquarium Management and Fish Processing Technology	The Student learned the significant knowledge and gain in depth knowledge, field and practical exposure in the different fields especially, aquaculture, fish genetic, ornamental fish culture and fish process technology.
				Marine Biology (E)	1-The Student learned the significant knowledge about the Marine Ecosystems 2-The Student will be able to understand Marine Biology and their importance in Biology.
				Aquatic Ecology and Biodiversity (E)	1-The Student learned the significant knowledge about the biodiversity and ecology of Fishes 2-Student will be able to understand Aquatic Ecology and their Biodiversity conservation.
				Research Methodology in Fisheries	1-The Student learned the significant knowledge about the Fisheries instruments 2-The Student will be able to understand bio-

					instrumentation and their methodology by individual student wise learned the Research Methodology in Fisheries instruments.
				Fish Harvest and Post-Harvest Management	1-The Student learned the significant knowledge about the harvest in Fisheries 2-The Student will be able to understand the fish harvest and Post-harvest management.
				Fish Hatchery and Farm Design and Construction	1-The Student learned the significant knowledge about the Fisheries Science 2-The Student will be able to understand Fish Hatchery and Farm Design and Construction
				Integrated Fish Farming Systems	1-The Student learned the significant knowledge about the Cultural systems 2-The Student will be able to understand the Integrated Fish Farming Systems their design and construction
				Lab: III- Research Methodology in Fisheries, Fish Harvest and Post - Harvest Management, Fish Hatchery and Farm Design and Construction and Integrated Fish Farming Systems.	The Student learned the significant knowledge and gain in depth knowledge, field and practical exposure in the different fields especially, methodology, Post-Harvest Technology, Farm Designing and construction and management of Integrated Farming.
				Fishery Economics and Marketing (E)	1-The Student learned the significant knowledge about the Fisheries Science 2-The Student will be able to understand Fishery Economics and Marketing
				Application of Statistics in Fisheries Sciences (E)	1-The Student learned the significant knowledge about the Statistics in Fisheries Sciences. 2-The Student will be able to understand Application of Statistics in Fisheries Sciences
				Field, Industrial Visit and	Purpose of Internship program for the students, to study the subjective based, you've learned and now you're

				Internship Programme	ready to figure out if the career path you're on is the right one for you. Doing an internship, whether you're still in university or you've already graduated, is a great way to explore the career you're interested in. The purpose of an internship is to provide real-world experience that enables you to put everything you've learned into action.
34.	M.Ed	<ul style="list-style-type: none"> • Gained the foundation of education philosophy, sociology and psychology as a teacher educator. • Understood the various methods of educational research as an educational researcher. • To be able curriculum planner by knowing the types and principles of the 	<u>Specific Objectives of the Programme</u> <ol style="list-style-type: none"> 1. Realize the values for their personal, professional and social life. 2. Bridge the ICT with education in different aspects. 3. Excel in using various methods for educational research. 4. Develop a courseware according to the subjects. 5. Reflect on strategies and programme in Education. 6. Make the 	M.Ed-1 st Semester 741101-Philosophical and Sociological Perspectives of Education	<ul style="list-style-type: none"> ➤ Gain understanding on the concept and nature of philosophy with the different discipline and various societies. ➤ Able to classify the schools of Indian philosophy and distinguish those schools from the doctrines of eastern and western thinkers. ➤ The information of the learners will be processed over the determinants of the social change and its impact on the world. ➤ Make the ascertaining capacity over the socialization process.
				741102-Advanced Educational Psychology	<ul style="list-style-type: none"> ➤ Correlate the prerequisite knowledge with the psychological concepts and will conceive the new ideas of the theories of psychology. ➤ Understand the individual difference of the students in terms of physical, mental, emotional and social aspects. ➤ Apply the learning theories in to the day-to-day pedagogical aspects. ➤ Use the personality and creativity concepts in their daily life and professional competence.
				741103-Research Methods in Education	<ul style="list-style-type: none"> ➤ Prepare a research proposal by their own. ➤ Apply the tools and all the methods of educational research appropriately. ➤ Involve in the execution of the research activities in all the relevant fields.

		<p>curriculum.</p> <ul style="list-style-type: none"> • Able to apply ICT in different aspect of education. • Gained the knowledge of the educational system of different countries. • Able to realise the values for the personal, professional and social life. • Learned the economical , political and democratic policies in education. 	<p>learners to realize the values in their future life.</p> <ol style="list-style-type: none"> 7. Understanding of the society. 8. Understand the students' needs, ability and interest. 9. Apply yoga in their day to day life. 10. Realise the expectations of students in teaching-learning process. 		<ul style="list-style-type: none"> ➤ Competent in preparing project report and documentation.
				741501-Elementary Education	<ul style="list-style-type: none"> ➤ Understand the concept of Elementary Education and different approaches. ➤ Gain knowledge of Right to Education and its role. ➤ Learn different Educational commissions and its recommendations. ➤ Understand the schemes and programmes in Elementary Education. ➤ Learn different Pedagogy in Elementary Education.
				741502-Secondary Education	<ul style="list-style-type: none"> ➤ Understand the modalities of secondary education management information system. ➤ Approve the existing teacher education curriculum from the standpoint of its relevance to the demands of present day school curriculum. ➤ Develop understanding of various strategies of teachers' professional development. ➤ Use various methods and techniques for the identification of training needs.
				741105-Yoga and Health Education	<ul style="list-style-type: none"> ➤ Know the origin and history of yoga. ➤ Compare Patanjali yoga Sutra with Thirumandiram. ➤ Understand the causes of diseases. ➤ Learn the methods of yoga. ➤ Identify various types of meditation. ➤ Visualise the physiological benefits of Pranayama
				M.Ed-2 nd Semester 741201-Educational Statistics	<ul style="list-style-type: none"> ➤ Understand measures of central tendencies and dispersion. ➤ Identify the characteristics of Normal probability curve and its application ➤ Estimate the concept of Parameter and statistics.

					<ul style="list-style-type: none"> ➤ Test specific hypotheses about populations base on their sample data. ➤ Demonstrate competence in the use of statistical packages for analysis of data
				741202- Education for Differently Abled Children	<ul style="list-style-type: none"> ➤ Oppressed children –causes and factors related to handicaps- their possible prevention ➤ Learning Disabilities. ➤ Identification of visual impairment. ➤ Meaning of giftedness and creativity. ➤ Children with behavior problems -causes related to the family and society.
				741203- Educational Technology	<ul style="list-style-type: none"> ➤ Understand the effective usages of technology in education and technology of education. ➤ Utilize the system approaches and communication modus. ➤ Develop and utilize the instructional design and model of teaching. ➤ Apply audio-visual media to facilitate a variety of academic process. ➤ Understand the new horizons and recent development in the field of Educational technology.
				741204- Introduction to Teacher Education	<ul style="list-style-type: none"> ➤ Understand the concept, needs of the education systems, objectives and privatization in teacher education. ➤ Comprehend and understand the contemporary teacher education in India. ➤ Acquaint the structure and curriculum of teacher education at different level. ➤ Utilize the instructional techniques. ➤ Apply the innovative practice in teacher education.
				741503-Early childhood Care	<ul style="list-style-type: none"> ➤ Understand the need and significance of early childhood care and education. ➤ Understand the quality dimensions i.e,

				and Education	<p>Curriculum, programmes and work force for early child hood care and education.</p> <ul style="list-style-type: none"> ➤ Develop knowledge for research in early child hood. ➤ Understand the policy perspectives on early child hood and education in India and world. ➤ Understand social and personal development of children 3-6 years.
				741504- Curriculum and Studies	<ul style="list-style-type: none"> ➤ Define curriculum. ➤ Analyse various approaches to curriculum development ➤ State the major issues to be addressed through curriculum. ➤ Describe various guiding principles for selection and organisation of learning experiences. ➤ Component the principles and criteria for developing learning experience.
				M.Ed-3 rd Semester 741301-Emerging Trends in Teacher Education	<ul style="list-style-type: none"> ➤ Understand the Needs, Importance, and Types of Teacher Education Institution. ➤ Understand the reforms in Teacher Education. ➤ Understand the issues and problems in Teacher Education.
				741302- Comarative Education	<ul style="list-style-type: none"> ➤ Understand the concept and scope of comparative education. ➤ Appreciate the roles and responsibilities of international organizations in education. ➤ Comprehend the societal educational at international context. ➤ Compare various educational system of India with other countries. ➤ Acquire knowledge about educational problems in India.

				741303- Assessment in Learning	<ul style="list-style-type: none"> ➤ Construct different types of tests. ➤ Standardize the test for data collection. ➤ Bring the innovative ideas in the examination pattern.
				741304-ICT in Education	<ul style="list-style-type: none"> ➤ ICT, Professional development of ICT. ➤ Explain the Computer fundamentals: Hardware and Software, Introduction to personal Computer. ➤ Explain the Internet and World Wide Web, Information, Service and function of the Internet and the web. ➤ Explain the ICT application in Education: Word, Data and Image Processing. ➤ Explain the Multimedia Packages-usage educational implications of Media and Interactivity website with educational content, Interpersonal communication through the e-Mail, Web forums and Chatting groups.
				741505- Educational Management	<ul style="list-style-type: none"> ➤ Understand teaching as a process of communication and be aware of various resource available for making it effective. ➤ To design and develop an ICT integrated learning resource. ➤ To organize learning with active participation of learners-individually and in groups. ➤ To understand importance of classroom management and management. ➤ To understand ways of preventing problems in managing a classroom and supervision. ➤ To describes approaches to classroom management and communication. ➤ Able to prepare and use appropriate instructional material for effective classroom transaction.
				741506-	<ul style="list-style-type: none"> ➤ Gain awareness and sensitivity to various

				Environmental Education	<p>environmental problems.</p> <ul style="list-style-type: none"> ➤ Acquire knowledge and attitude towards environment. ➤ Acquire skills for solving environmental problems. ➤ Understand EE curriculum and evaluation procedures. ➤ Participate in activities aimed at resolving environmental problems.
				M.Ed-4 th Semester 741401-Value Education	<ul style="list-style-type: none"> ➤ Understand the need and importance of value education. ➤ Impart value education to students. ➤ Develop moral values through various approaches like Psycho-analytic approach and Cognitive developmental approach. ➤ Assess moral maturity via moral dilemma resolution.
				741402-Planning of Economy and Financing in Education	<ul style="list-style-type: none"> ➤ Identify the need, scope and purpose of educational planning in terms of national and community needs. ➤ Comprehend the skills in planning and using a variety of administrative strategies. ➤ Explain the role and contribution of different agencies/ contribution in educational planning. ➤ Competent in determining and implementing the objectives of planning and financing for education on the basis of individual needs of the students.
				741507-Policy in Education	<ul style="list-style-type: none"> ➤ Identify the types of educational policy, need, importance of educational policy. ➤ Comprehend the role of private and public partnership in implementation of educational policy and aware about the issues and strategies in evaluation policy. ➤ The knowledge of monitoring and evaluation agencies of education policies and aware about the linkage between educational policy and national development.

				741508-Open and Distance Learning	<ul style="list-style-type: none"> ➤ Comprehend the meaning and concept of distance education ➤ Appreciate that the distance education is the need of the hour ➤ Acquire an insight into the Intervention strategies at distance education ➤ Realize the Quality assurance of Distance Education and its New Dimensions. ➤ Appreciate the important role of UGC and DEB in Distance education.
35.	M.Sc Yoga	1.To practice mental hygiene. 2.To possess emotional stability. 3.To integrate moral values. 4.To attain higher level of consciousness	Spiritual development practices to train the body and mind to self observe and became of their own nature.	1. Research Methodology in Yogic Practice	1.To improve the qualitative research in yogic. 2.To enrich knowledge about the philosophical methods. 3.To develop the scaling techniques in yogic practices
				2. Anatomy and Physiology	1.To improve the knowledge about nervous system and special senses. 2.To enrich knowledge about the balance diet system. 3.To develop the function of the skeleton arrangement.
				3. Asanas and Pranayama	1.To develop practical knowledge. 2.To develop effective of yogic practices.
				4. Fundamentals of Yoga Education	1.To improve the knowledge about yoga education. 2.To enrich the good health 3.To develop modern trends in the application of yoga in education
				5. Scientific Approach of Yoga	1.To enrich the knowledge about physiological system. 2.To develop the physiological benefits. 3.To develop psycho-physiological benefits.
				6. Applied Yoga In Modern Life	1.To develop personal hygiene. 2.To enrich positive health. 3.To develop health personality.
				7. Yogic Practices and Social Values	1.To develop social values. 2.To enrich the holistic care 3.To develop practical knowledge about yogasana
				8. Methods Of Practice In Yoga	1.To develop teaching methodology of yoga. 2.To develop classroom management. 3.To develop teacher qualities

				9. Introduction to Psychology Counselling	1.To enrich the knowledge about memory. 2.To improve the biological basis of human behaviour. 3.To enrich the knowledge about the neurons
				10. Yoga & Positive Health	1.To develop health personality skills. 2.To enrich body mind control. 3.To develop personal hygiene.
				11. Principles of Hatha Yoga	1.To enrich the knowledge about hatha yoga principles. 2.To provide various techniques of Hatha Yoga.
				12. Pranayama Kriyas Mudras Bandhas Meditations	1.To develop the meditation practices 2.To enrich knowledge about kriyas 3.To develop the yogic practices
				13. Brain Consciousness And Yoga	1.To develop the consciousness 2.To enrich knowledge brain functions 3.To develop the cognitive skills.
				14. Principles of Yogic Therapy	1.To develop the yogic principles 2.To enrich knowledge about yoga therapy
				15. Advanced Yoga Techniques	1.To develop advanced yogic techniques. 2.To enrich the knowledge mind emotion techniques.
				16.DISSERTATION	1.To develop to writing research proposal. 2. To enrich quality research writing.
36.	M.Ed. Special Education(Visual Impairment)	The M.Ed.Spl.Ed. program supports three shared philosophical stances underlying long-standing tradition of preparing teacher educators as	☺ Assist potential teacher educators to exert leadership in advocating and meeting educational needs of children with disabilities in various settings ☺ Offer special teacher educators the opportunity to	Development in Education and Special Education	<ul style="list-style-type: none"> ➤ Trace development of general and special education system (PwDs) in India. ➤ Appreciate implications of recommendations made by the various Committees and Commissions for educational (General and Special) developments in India. ➤ Develop insight into the issues and challenges of present day education system. ➤ Understand important quality related issues which need to be taken into account for revision/ development of new education policy.
				Psychology Of Development And Learning	Course Outcomes After completing the course teacher educators will be

		<p>education leaders. These stances include teaching as inquiry, teaching as curriculum making and teaching for social justice.</p>	<p>develop specialized capacity for leadership in curriculum, pedagogy and universal design</p> <p>☉ Build theoretical knowledge and skills in research methodologies and conducting research in order to enhance education of children with disabilities in all settings.</p>		<p>able to</p> <ul style="list-style-type: none"> • Explain the psychological principles and their application in specific context of education and special education. • Explain the principles and their implication for growth and development. • Critically analyse the process from the point of view of cognitive psychology. • Explain role of motivation in learning, learning processes and theories of personality. <p>Apply psychological aspects to teaching - learning situations.</p>
				<p>Research Methodology and Statistics</p>	<ul style="list-style-type: none"> ➤ Develop a conceptual understanding of research, its need and ethical research practices. ➤ Describe the types, methods and process of research. ➤ Apply statistical techniques for analysis of data. ➤ Explain the methods and techniques of qualitative research. ➤ Prepare research proposal and report.
				<p>Identification and Assessment of needs of Children with Visual Impairment</p>	<ul style="list-style-type: none"> ➤ Trace the historical development of visual impairment and discuss the attitudinal change of society over time. ➤ Describe the causes and implications of different eye disorders. ➤ Critically examine the needs arising at different stages of persons with visual impairment. ➤ Develop skills to identify and assess children with blindness, low vision, and children with VIMD. ➤ Develop skills to plan and implement vision

					efficiency training for children with low vision.
				Curriculum and Teaching Strategies for Children with Visual Impairment	<ul style="list-style-type: none"> ➤ Appreciate the importance of various basis to curriculum development. ➤ Develop an expanded core curriculum for children with visual impairment on the basis of situational analysis. ➤ Adapt the school curriculum keeping in mind the principles of curriculum adaptation in different curricular skill areas. ➤ Demonstrate appropriate teaching strategy in teaching reading, writing, and math ➤ Critically examine approaches to curriculum development for VIAD.
				Curriculum Design & Development	<ul style="list-style-type: none"> ➤ Define and identify different components of curriculum. ➤ Understand and analyse various approaches to curriculum development. ➤ Explain and demonstrate curriculum differentiation.
				Inclusive Education	<ul style="list-style-type: none"> ➤ Explain the philosophical, sociological and rights perspective of inclusive education. ➤ Develop skills in using a wide range of tools, instructional strategies, and social supports to assist students with disabilities learn effectively. ➤ Develop the skills associated with interpersonal relationships, managing relations in educational settings, problem-solving in educational settings, leadership and working in teams to promote inclusion.
				Application of Advanced Technology and	<ul style="list-style-type: none"> ➤ Explain the relevance of technology for persons with visual impairment. ➤ Illustrate various devices to facilitate the

				Persons with Visual Impairment	<p>education of persons with visual impairment.</p> <ul style="list-style-type: none"> ➤ Describe various technological devices for promoting quality of life of persons with visual impairment. ➤ Critically analyse suitability/ appropriateness for various technological devices for persons with visual impairment. ➤ Discuss various trends in research on technology for persons with visual impairment.
				Planning and Financing of Education	<ul style="list-style-type: none"> ➤ Identify the need, scope and purpose of educational planning in terms of national and community needs, ➤ Develop the skills in planning and using a variety of administrative strategies, ➤ Explain the role and contribution of different agencies/ contribution in educational planning, ➤ To help them determine and implement objectives of planning on the basis of individual needs of the students.
				Perspectives in Teacher Education – In Service & Pre-Service	<ul style="list-style-type: none"> ➤ Gain insight and understand development of Teacher Education with reference to education of children with disabilities. ➤ Reflect on issues and problems related with teacher preparation for education of children with disabilities. ➤ Familiar with responsibilities of different organisations in preparation of competent teachers and critically examine it. ➤ Appreciate importance of in-service programmes and develop capacity to plan and execute it as per specific need and purpose. ➤ Appraise the existing teacher education curriculum and its relevance, issues and challenges.

				<p>Nai Talim – Experiential Learning – Field Practice</p>	<ul style="list-style-type: none"> • To Identify the divide between school and life. • To Identify the philosophy of Nai Talim, Experiential Learning and Work Education, Community Engagement and its relevance for all-round development of the Children. • To Identify the theoretical perspectives of Nai Talim and Experiential Learning in the Education theory of Gandhiji. • To Identify Nai Talim in the policy perspectives of Government of India viz., National Curriculum Framework, 2005 and Right to Education Act 2009. • To Identify the pathways and strategies for the development of Head, Heart and Hands with appropriate field engagement activities. • To Identify the potential of Community Engagement in School/Teacher Education Institutions and appropriate strategies for Community Participation. • To outline the issues and concepts to be incorporated as a part of School and Teacher Education Curriculum to connect school knowledge to life outside the school with a focus on global issues and Sustainable Development Goals of UNESCO. • To Identify pedagogical practices and methodologies for the effective implementation of the proposed curriculum. • To develop activities, projects and learning tasks in school and teacher education subjects for overall development of Children • To Identify the changing profile of local economy, polity and community in Rural India in terms of consumptions patterns, land use patterns, cropping, lifestyle, living standards, settlement patterns. • To assess Subjects in school education, their coverage, content, transaction modalities and outcomes.
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					<ul style="list-style-type: none"> • To orient the student teachers into handling Nai Talim Education and Work Education.
				Adulthood and Family Issues of Children with Visual Impairment	<ul style="list-style-type: none"> ➤ Analyze the role of family as a support system from birth to adulthood. ➤ Discuss the concerns of the family of a person with visual impairment. ➤ Meet the challenges faced at different stages of transition of a person with visual impairment. ➤ Develop the skills to prepare an ITP and IFSP. ➤ Develop a critical understanding of schemes for equal opportunities.
				Elective – I 1.Educational Management	<ul style="list-style-type: none"> ➤ Explain the basic fundamental areas of management. ➤ Describe the skills required for enhancing institutional quality for sustained development. ➤ Enumerate the skills required for capacity building of human resources. ➤ Explain the skills needed to manage data for various information management processes. ➤ Prepare cost effective budgets, proposals and describe ways of managing financial resources.
				2.Educational Technology	<ul style="list-style-type: none"> ➤ Discuss roles of Educational Technologists in various contexts. ➤ Apply appropriate instructional strategies. ➤ Develop appropriate instructional media. ➤ Integrate suitable ICT effectively in teaching-learning-evaluation. ➤ Suggest suitable modality of instruction (Online, Blended, etc.).
				3.Guidance and Counselling	<ul style="list-style-type: none"> ➤ State the basic concepts in Guidance & Counselling. ➤ Discuss Educational, Vocational and Personal Guidance. ➤ Describe testing devices and non-testing

					<p>techniques of guidance.</p> <ul style="list-style-type: none"> ➤ Analyze the problems faced by students in the contemporary world. ➤ Discuss the problems faced by children with disabilities.
				Educational Evaluation	<ul style="list-style-type: none"> ➤ Explain the key concepts of evaluation and describe the developments in evaluation. ➤ Describe the scope of evaluation in education. ➤ Describe the use of evaluation as an effective tool in teaching-learning process. ➤ Describe the ways & means of evaluation of programmes. ➤ Explain the current trends in evaluation.
				<p>Elective - II</p> <p>1. Policy in Education</p>	<ul style="list-style-type: none"> ➤ Understand the types of educational policy and its classifications ➤ Aware about the need and importance, objectives and determinant of educational policy ➤ Know the identification of implementation agencies of the educational policy ➤ Understand the role of private and public partnership in implementation of educational policy ➤ Aware about the issues and strategies in evaluation policy ➤ Aware about the issues and strategies in evaluation of educational policies ➤ Acquire the knowledge of monitoring and evaluation agencies of education policies ➤ Analyses the documents of the educational policy ➤ Understand the research methods of the educational policies and funding agencies for the research of educational policy <p>Aware about the linkage between educational policy and national development</p>
				2.Distance	<ul style="list-style-type: none"> ➤ Understand the nature and need of distance education in the present day Indian Society

				Education	<ul style="list-style-type: none"> ➤ Use different kinds of information and communication technologies (ICT and enable them to be familiar with their use in teaching learning process) in distance education ➤ Understand various modes of student support services (SSS) and develop in them skills to manage such services for various kinds of program through distance education ➤ Evaluate programs of distance education and to develop in them the ability to enhance the quality and standards of different Distance Education programs
37.	M.Sc Psychology	<ul style="list-style-type: none"> • Develop knowledge and skills of a professional psychologist. • Prepare and present material for Diagnostic Procedures • Develop knowledge and skills required to engage in practice or 	<ul style="list-style-type: none"> • To create a cadre of Psychologist. • To strengthen the professionals already in the field to qualify as Psychologist. 	General Psychology	<ul style="list-style-type: none"> ➤ The Nature and Origin of Psychology and the Biological bases of behaviour ➤ The nature of Sensation, Perception, Learning and Memory ➤ The meaning and processes of cognition, intelligence and creativity ➤ The basic aspects and theories of Motivation and Emotion ➤ The nature of Personality and its Assessments
				LIFESPAN PSYCHOLOGY	<ul style="list-style-type: none"> ➤ To understand the beginnings of life & Prenatal Development ➤ To know the developmental in infancy & Toddler period ➤ To study the developmental in childhood & Adolescence period ➤ To understand the nature of developments in young and Middle Adulthood ➤ To know the developments during Late Adulthood
				SOCIAL PSYCHOLOGY	<ul style="list-style-type: none"> ➤ The nature and origins of Social Psychology ➤ The nature of Attitudes and Discrimination ➤ The nature of Social Identity and Interpersonal Attraction ➤ The basic aspects of Social Influence and Pro-social behavior

		<p>research in a specific area within psychology</p> <ul style="list-style-type: none"> • Describe and explain major theoretical positions and empirical findings in subfields of psychology • Create a cadre of Psychologist. • Strengthen the professionals already in the field to qualify as Psychologist. 			<ul style="list-style-type: none"> ➤ The meaning and nature of Aggression and Group behavior
				THEORIES OF PERSONALITY	<ul style="list-style-type: none"> ➤ Understand major theoretical approaches to personality ➤ Understand assessment methods used in personality. ➤ Understand the process of personality change and development
				COGNITIVE PSYCHOLOGY	<ul style="list-style-type: none"> ➤ To explain the mediatory role of cognition in behavior ➤ To explain the process and function of attention ➤ To describe sensational, perceptual phenomena and its different scientific explanations ➤ To elucidate how the memory system functions ➤ To explain the process and function of Neuropsychology ➤ To describe Plasticity and Restoration of brain function
				BIOLOGICAL PSYCHOLOGY	<ul style="list-style-type: none"> ➤ The historical foundations of Neuron and Nervous system Bio Psychology ➤ The classification of ANS and CNS ➤ The characteristics and functions of Endocrine Glands and hormones
				HEALTH PSYCHOLOGY	<ul style="list-style-type: none"> ➤ To Know the Nature & Theories of Health Psychology ➤ To understand the Health Improving Behaviors ➤ To know the Nature of Sexuality and Intimate Relationships ➤ To learn the Stress and Theories of Stress & Management ➤ To know the Application of Health Psychology to Human Behavior

				<p>RESEARCH METHODS AND STATISTICS</p> <ul style="list-style-type: none"> ➤ The meaning and approaches to Scientific Research. ➤ The nature and Research Design and Sampling Techniques ➤ The Measurements and Scaling Techniques in Research ➤ The methods of data collection and projective techniques ➤ The various methods of Data Analyses and Report Writing
				<p>POSITIVE PSYCHOLOGY</p> <ul style="list-style-type: none"> ➤ The meaning and approaches Positive Psychology and the classifications ➤ The nature of Positive Emotional States and its Experiences ➤ The Positive cognitive states and Universal Virtues ➤ The nature of Optimal Experiences and Pro-social behaviour ➤ The meaning of Attachments and Changing Human behaviour
				<p>EDUCATIONAL PSYCHOLOGY</p> <ul style="list-style-type: none"> ➤ Analyze the different principles and theories explaining student learning ➤ Evaluate the effectiveness of the theories in explaining individual differences in learning ➤ Apply the different principles and theories of learning in the classroom ➤ Analyze the impact of educational psychology on the processes of teaching and learning
				<p>SPORTS PSYCHOLOGY</p> <ul style="list-style-type: none"> ➤ The nature of sports psychology and athletic behaviour ➤ The link between cognitive psychology and sports
				<p>REHABILITATION PSYCHOLOGY</p> <ul style="list-style-type: none"> ➤ To understand the historical perspectives, methods and functions of rehabilitation psychologist in the field of rehabilitation services. ➤ To become aware of psychological approach to

					<p>rehabilitation in rehabilitation psychology.</p> <ul style="list-style-type: none"> ➤ To understand the personality development among children with disabilities and their coping styles and rehabilitation process ➤ To be aware on the rehabilitation process in various areas.
				SPIRITUAL PSYCHOLOGY	<ul style="list-style-type: none"> ➤ The basic and applied perspectives on spirituality. ➤ The relevance of appropriate research methods in spiritual psychology. ➤ The briefly about spiritual healing and journey.
				PSYCHOPATHOLOGY	<ul style="list-style-type: none"> ➤ To familiarize with a Concepts and Historical Views on Psychopathology ➤ To know the Standardized Classification of Mental Disorders ➤ To understand the Mood and Schizophrenic Disorders ➤ To learn the Sexual and Personality Disorders ➤ To learn the Developmental Disorders
				Introduction to Psychotherapy	<p>To familiarizes with the Nature of Psychotherapy and Psychoanalytic therapy</p> <ul style="list-style-type: none"> • To know the Adlerian and Existential Therapy • To understand the Person-Centered and Gestalt Therapies • To learn the Reality and Behavioral Therapies • To learn the Cognitive therapy and its Applications
				ORGANIZATIONAL BEHAVIOUR	<ul style="list-style-type: none"> ➤ The organizational behaviour and its need ➤ Theories of group formation and essentials of Team work ➤ The Organizational power and politics ➤ The organizational Stress and Conflict and its consequences ➤ The nature of organizational Dynamics
				BEHAVIOUR MANAGEMENT	<ul style="list-style-type: none"> ➤ Analyze the different principles and uses of Behaviour Management ➤ Evaluate the Behavioural Assessment

					<p>techniques in special education.</p> <ul style="list-style-type: none"> ➤ Apply the Behaviour therapy and ABA Research.
				PSYCHOLOGY OF ADVERTISING	<ul style="list-style-type: none"> ➤ The Origin and Fundamentals of Modern Day Advertising ➤ The Types of Advertising and Marketing Mix ➤ The Psychological process of Advertising ➤ The Consumer Attitudes and social Influence on Advertising ➤ The Social Media and External Influence on Consumer Designs
				COUNSELLING PSYCHOLOGY	<ul style="list-style-type: none"> ➤ The importance of Guidance and Counseling ➤ The nature of counseling situation ➤ The various areas of Counselling ➤ The aware of Ethical and Legal issues in Counselling
				MINDFULNESS	<ul style="list-style-type: none"> ➤ The scope of mindfulness based interventions for promoting mental health. ➤ The familiar with Buddhist psychotherapy. ➤ The various possibilities of integrating Buddhist thought to western psychological perspectives and practices.
				PSYCHOLOGY AND DISABILITY STUDIES	<ul style="list-style-type: none"> ➤ To gain knowledge on the concept of disability, impairment and handicap , Types and Characteristics of Different Disabilities ➤ To understanding psychosocial issues and challenges of different disabilities ➤ To develop knowledge on psychological testing and counseling in the field of disability studies
				PSYCHOMETRICS	<ul style="list-style-type: none"> ➤ Overview of the many facts of psychological tests and measurement principles used in assessing human behaviour. ➤ Test construction, test development, standardization, validity, reliability, and evaluation of different psychological tests.
38.	M.Voc Software	<ul style="list-style-type: none"> • Software 		7MSD1C1 - Programming	Known Object-Oriented concepts and the power of Java language in Internet programming.

Development	<ul style="list-style-type: none"> Developer Software Analyst 	With Java	
		7MSD1C2 - Software Engineering	Known the basic concepts of Software Engineering and the various phases in Software Development in order to make the students to become a Software developer with conventional SDLC methodologies
		7MSD1P1 - Programming With Java - Lab	Developed Java programs to solve well specified problems and to able to debug and test Java programs
		7MSD1P2 - Data Structures And Analysis Of Algorithms Using C++ - Lab	Learned various data structures and to explain them algorithms for performing various operations on these data structures using C++ language
		7MSD1G1 - Digital Electronics & Computer System Architecture	Educate the fundamental principles of Digital electronics such as, Number Systems, Logic Circuits, Boolean algebra and Digital circuits
		7MSD1C3 - Mathematical Logics For Software Development	Given precise knowledge about Linear programming techniques and the principles of Resource scheduling techniques
		7MSD2C1 - Principles Of Computer Networks And Security	Provided overall knowledge in computer communication networks and security concepts.
		7MSD2P2 - Perl & Python - Lab	Known the algorithms in Perl and Python.
		7MSD2C3 - Fundamentals Of Operating System	Known fundamental aspects of various Process, Memory management, GUI and Security techniques of Operating System
		7MSD2P1 - .Net Technology Lab	Known the algorithms in ADO.net, VB.net and ASP.net.

				7MSD2MP - Mini Project	Known the Project the theme about particular domain
				7MSD3C1 - Principles Of Compiler Design	Developed skills in designing a compiler among the learners
				7MSD3C2 - Data Mining And Data Warehousing	Analyzed the data, identify the problems, and choose the relevant models and algorithms to apply.
				7MSD3C3 - Programming in PHP	Learned to develop customized applications using PHP and MySQL
				7MSD3P1 - Programming In PHP Lab	Enable the students to create a complete Website using PHP and MySQL
				7MSD3C4 - Finishing Skills In Software Development	Known knowledge of students in various fields of Computer Science / Software Development in order to prepare them to face their career interviews.
				7MSD4PR - Industrial Internship With Project Work	Known employment in industry, government, or entrepreneurial endeavors to demonstrate professional advancements through significant theoretical and practical knowledge and expanded leadership responsibilities.
				7MSD1E1 - Fundamentals Of Programming And C	Learned and to understand the structure of C language to use the specialties of 'C' language to develop good programming Skills
				7MSD1E2 - Object Oriented Software Development	Known the role of OOSE in Software Development process through UML so as to produce Software developers in Object Oriented programming environments
				7MSD1E3 - Object Oriented Programming With C++	Provided a sound understanding of the fundamental concepts of the object technology and to learn the realistic applications of object oriented software systems using C++

				7MSD2E1 - RDBMS – Lab	Learned programming with PL/SQL including manipulation of Cursors, Packages and Triggers, Functions & Procedure
				7MSD2E2 - Programming With WIN32 API - Lab	Developed a well versed programmer in Win32 API to become a good developer of GUI
				7MSD2E3 - Web Designing Technologies - LAB	Learned the languages for the web such as, HTML, JavaScript, Photoshop, Flash and Dreamweaver
				7MSD2E4 - Corporate Etiquette Skills	Learned to build a consistent professional image with respective organization's vision and mission.
				7MSD2E5 - Competitive Examination Skills	Learned about Social skills and Conflict skills to become a successful person
				7MSD2E6 - Soft Skills And Entrepreneurial Skills	Known the students with the latest programs of the government authorities in promoting small and medium industries.
				7MSD3E1 - Soft Computing	Given precise knowledge about Soft computing concepts to the learners so as to create research interest in Soft computing.
				7MSD3E2 - Software Project Management And Quality Assurance	Developed the skills related to Project Planning, Software requirement analysis models, Project Execution approach and Risk Management strategies in order to enrich the students to become an efficient Software Project managers
				7MSD3E3 - Cloud Computing	Known the basic concepts of cloud computing and its applications
				7MSD3E5 - Software Design And Testing - Lab	Enabled the students to use the Software Testing tools in an effective manner so as to debug a code themselves

				7MSD3E6 - XML And ANDROID Programming - Lab	Known XML and ANDROID Programming
				7MSD1B1 - Fundamentals For Software Development	Known the knowledge about various facets of Software Development
				7MSD2B2 - Principles Of Web Designing	Known the principles of Web Design, the features of HTML and Scripting Language - JavaScript and to design web pages.
				7MSD4PR – Industrial Internship with Project Work	Project
39.	M.Voc., Fashion Technology	<ul style="list-style-type: none"> • Fashion Coordinator • Merchandiser • Quality Assessor 		Advanced Textile Science	Studied the different fibre and it manufacturing process, uses and fabrication process and it advanced techniques.
				Apparel Production Technology	Learnt about the garment industry process, apparel production analysis, quality standards, process involved to manufacture the garments.
				Advanced Pattern Making - Lab	Gain basic and advanced techniques followed in pattern making and develop pattern for different types of garments.
				Advanced Draping - Lab	Learnt the basic and advanced techniques followed in Draping techniques and drapes the design for different designs.
				Historic, world costume and Textile	Knew about the historic costumes and its adoption & growth and development of world costumes.
				Eco Textiles and sustainability	Got insight knowledge about the importance of the Eco textile and its effect on environment, natural fibres utilisation and eco standards in textile industry.
4				Visual merchandising	Gain Knowledge about visual merchandising and it importance in garment retailing.

				Knitting clothing Technology	Studied the knitting industry growth and its contribution in Indian Economy and knitting method, fabric manufacturing process and quality management.
				Clothing appearance and fit	Knew the perception of body appearance and its relation to clothing and the assessment of clothing appearance, fit and sizing system and importance of body Scanning system.
				Advanced Textile Design	Understand the different elements of weaving, weave effects, special weaves and its application in textile design.
				Indian Textile Industry and trade	Studied the growth and development of Indian fiber yarn and textile industry and government initiatives.
				Advanced Wet Processing	Get insight knowledge of textile wet processing and its application in different textile fibers and ETP.
				Mini-Project	Able to do the industrial related project that enhances the practical skills
				Advanced Wet Processing- Lab	Learnt about the textile wet processing and its application in different textile fibers.
				Home Textiles - Lab	Knew the pattern making procedure of household textile products, design and construction process.
				CAD in Fashion Designing	Able to create the different type of design in computer by adopting the software and designing garments.
				Advanced Fashion Illustration - Lab	Learnt the basic principle and techniques used in drawing, colour combination and apply on garment designing.
				Corporate Etiquette Skills	Got knowledge in the skills and proper business etiquettes among the students to build good corporate relationship with the customers and their colleagues.
				Competitive Examination Skills	Learnt about Social skills and Conflict skills to become a successful person and acquire interpersonal skills .
				Soft Skills and Entrepreneurial Skills	Learnt the latest programs of the government authorities in promoting small and medium industries and impart knowledge regarding how to start new ventures.

				Technical Textiles	Understand the different areas of COE in the technical textiles and fibers uses
				Textile Testing	Studied the fiber, yarn and fabric testing and get knowledge about high volume instrument used for the textile testing.
				Textile Testing-Lab	Got knowledge in fiber,yarn and fabric testing and interrelation factor of textiles properties.
				CAD in Pattern Making	Able to understand the CAD application in garment industry and provide overall skill about the patternmaking and grading.
				Finishing Skills in Fashion Technology	Understand the various fields of Fashion Technology in order to prepare them to face their career interviews.
				Home Textiles	Known the importance of household materials and manufacturing process, application areas.
				Apparel quality standard and specification	Studied the quality standards and its importance in garment industry, identify the chemicals, dyestuff which make harmful to the environment and understand its minimum level usage.
				Apparel Marketing and Merchandising	Understand the marketing scope buying behaviour of consumers and provided a sound understanding of the merchandising concept and garment costing.
				Portfolio presentation and design Collection - Lab	Learnt the skill in the fashion designing field and prepare their portfolio based on theme.
				Surface ornamentation in Apparels and Textiles - Lab	Learnt the basic embroidery Stitches and it application for garment design.
				Advanced Garment Construction - Lab	Able to develop garment for special uses, analyse the need and develop design based on the need of the wearer.
				Industrial Internship with	Learnt out the employment opportunities in industry, government, or entrepreneurial endeavors .

				Project Work	
40.	MBA	To enable the graduates to take up their managerial careers in various business, governmental and non-governmental organisations	Better equipped future manager, with necessary problem solving, decision making and managerial skills	Management Theory and Practice	Explain the historical backdrop and fundamentals of Management thoughts vital for understanding the conceptual frame work of Management as a discipline.
				Business Environment	Outline the importance of globalization and its impact on international business.
				Accounting for Managers	Understand the financial concepts as well as to know the management action relating to the finance. . Comprehend the financial position through final accounts.
				Organisational Behaviour	Understand the importance of Organisational Behaviour.
				Managerial Economics	The students could assimilate the basic concepts in economics for effective management of scarce resources required for management.
				Workshop on Communication Skills	Develop oral communication skill among the students
				Information Technology for Business	Impart students and train the computer and IT based knowledge
				Business Research Methods	Write a literature review in a specific area Develop a research design and method paper including the ethical implications of the research
				Legal Aspects of Business	The students are able to understand the basic concepts regarding business contracts , sale of goods and agency.
				Marketing Management	Understand Consumer buying process, Psychological, sociological determinants, Marketing Information System- Marketing segmentation: Bases–Targeting and Positioning.
Human Resource Management	Understand the concept of Human Resource management. Comprehend the key objectives of Human resource planning				

				Production and Operation Management	Understand and appreciate the concept of Production and Operations Management. . Recognise the scope of Production and Operations Management and its role in creating competitive advantage for business organisations.
				Financial Management	Understand the real activities of finance in business
				Workshop on Organizing Skills	manage a team in organizing events. able to conceptualize and implement an event plan.
				Quantitative Methods	Understand the Lp programming and transportation algorithm. Get knowledge about Binomial, poisson and Normal Distributions
				Non Major Elective I	iii. develop organizing skills
				Suitable MOOC available in SWAYAM / NPTEL	Able to identify the concepts and significance of Management Control and Task Control
				Comprehensive Viva III	Understand the concepts and significance of Principles of Retailing; delves into the functions of retailing, types of retailing, forms of retailing based on ownership, Retail theories, Wheel of Retailing, Retail life cycle and Retailing in India
				Summer Project Report	Train and submit the research based project report
				Employment Enhancement Practices	Train the quantitative and employability skill
				Working Capital Management	Understand the working capital concepts as well as to know the working capital policies. Comprehend the impact on the firm's profitable, liquidity, risk and operating flexibility
				Direct Tax Laws & Practices	Understand the knowledge about the direct tax laws. Comprehend the Income from other sources such as Methods of Accounting.

				Security Analysis Portfolio Management	Analyze and evaluate financial markets, how securities are traded in the secondary markets. Understand the industry analysis, equity valuation and technical analysis.
				International Finance	Understand the basic knowledge of how international financial markets work . Comprehend the knowledge on exchange rates and why currency values fluctuate
				Strategic Management	Understand Strategic planning and strategic management, Process of strategic planning, dimensions of strategic decisions and Strategic management process
				Mgmt. Control & Information System	Able to identify the concepts and significance of Management Control and Task Control. Identify the Management control structure, MIS, Information System
				Workshop on Personality Development	manage his / her time and people around him / her. able to cope up with stressful situations and have a balanced behaviour
				Principles of Insurance	Understand the various concepts of insurance
				Insurance Business Environment	Understand the essentials of services marketing, including financial and advisory services. . Expose the student to Acquire and develop marketing and selling skills in area of Insurance Business Environment
				Consumer Behaviour	Understand the concepts and significance of Consumer Behaviour, Application of CB principles to strategic marketing – Role of marketing in CB – CB and marketing segmentation
				Marketing Communications	Understand the concepts and significance of marketing communications, History of marketing communications, Growth of advertising in India, Benefits of advertising and types of advertising. Comprehend Advertising communication process, Construction of an advertisement Copy, Layout, Developing and appraising advertising messages for print

				Marketing Metrics	Understand the concepts and significance of marketing metrics, linking marketing to financial consequences, Share of heart, mind and markets, Role and importance of marketing metrics in strategic marketing decisions. Comprehend Metrics for product and portfolio management, Metrics for brand allocation. Brand and Brand valuation
				Rural Marketing	Understand the concepts and significance of rural marketing, components of rural markets, classification of rural markets, rural vs. urban markets and regulated markets . Comprehend with Organizational Buying Process: Buy Phases and Buy Classes, Buying Process – RFP, RFQ and EOI - Bidding, Leasing and Tendering Processes
				Business Marketing	Understand the concepts and significance of Business marketing, Difference between business and consumer marketing, Classification of business products and services, Classification of Business Customers, Business Marketing Environment and Demand in industrial markets
				Franchise Management	Understand the concepts and significance of Franchise Management, Historical Precedence of Franchising, Marketing Organisation, Franchising, Format Franchising and Internationalization
				Principles of Retailing	Understand the concepts and significance of principles of retailing; delves into the functions of retailing, types of retailing, forms of retailing based on ownership, Retail theories, Wheel of Retailing, Retail life cycle and Retailing in India
				Direct Marketing	This course will create an insight to develop a comprehensive direct marketing strategy and improve prospecting skills learn the measurement techniques used in evaluating direct marketing efforts to know the ethical and legislation impacting direct marketing.
				Business Modelling &	Know about the integrating business management principles and practice the theory in an interdisciplinary

				Simulation	environment. Skill of analyzing about business process
				Integrated Materials Management	Understand about Integrated Materials Management. Well Known about the Purchasing, stores and warehousing concepts
				Logistics Management	Know about the role and importance of logistics in modern day economy. Knows about relationship between logistics and other functional areas
				Maintenance Management	Develop and maintenance plan for a technical system
				Modern Manufacturing Management	An ability to use the techniques, skills, and modern engineering tools necessary for Management practice
				Organisational Culture & Development	Manage Organizational Culture
				Advanced Behavioural Science	. Grasp basic knowledge about behavioral science Appreciate the value of behavioral sciences in modern life
				Industrial Relations	Explain the relationship between employer and employee
				Performance Management	Understand the concept of performance management. Comprehend the key objectives of performance appraisal
				Change & Dynamics in Organizations	identify and explain the various organizational dynamic manage organizational effectiveness.
				Organizational Stress & Conflict Management	gather data to analyse and specify the requirements of a system
				Human Resource Accounting & Auditing	Provide cost value information about acquiring, developing, allocating and maintaining human resources
				Performance Management	Understand the concept of performance management. Comprehend the key objectives of performance

					appraisal
				Change & Dynamics in Organizations	identify and explain the various organizational dynamics. manage organizational effectiveness.
				Organizational Stress & Conflict Management	Identify one's primary approach to handling conflict Decision Making under Stress Behavioural and Situational Modifiers, Stress and Motivation
				Staffing Strategies	Able to Staffing strategies Planning and concept. Able to find the purpose and benefits and Staffing strategies.
				System Analysis and Design	Gather data to analyse and specify the requirements of a system
				Relational Database Management	Master the basic concepts and understand the applications of database systems
				Software Engineering	understand the issues affecting the organisation, planning and control of software-based systems development
				Data Communication Systems & Networks	Independently understand basic computer network technology
				Data Warehousing and Data Mining	define and critically analyze data warehouse and mining approaches for fields such as security, forensics, privacy, and marketing.
				System Dynamics	Students will demonstrate understanding of dynamic system stability and transient response specifications.
				Small Business Management	Describe important issues about small business
				Family Business Management	Students will be able to understand the uniqueness, strengths and weaknesses of family business, rights, duties and responsibilities of the members in the family business.

				Business Analytics	Gain an understanding of how managers use business analytics to formulate and solve business problems and to support managerial decision making.
				Management of Organizational Stress & Conflict	
				Management of Retailing	
				Comprehensive Viva IV	Develop and organize the event management skill.
				Advanced Cost Accounting	Understand the purpose and elements of cost and its techniques Get knowledge about stores management
				GST and Customs Law	The students will have knowledge on the GST and Customs Laws.
				Financial Derivatives	Understand the Traders participants. knowledge about concepts pertaining to delivery
				Investment Management	Understand the avenue of investment and its management
				Financial Engineering	Understand the concepts relating to the financial engineering
				Financial Derivatives	Understand the Traders participants
				Equity Research (Project Based)	Train the students to do research project on stock and derivative
				Principles of Actuarial Science	Impart theory and practice an actuarial science
				Insurance Administration	Understand the administration of various insurance companies
				Sales Management	Understand the concepts of Selling and Marketing, theories of selling, International selling, Retail selling, Classification of sales people, Characteristics of sales people and Personal selling.
				Distribution Management	Understand the concepts of Distribution Management and the Marketing Mix; Marketing Channels: Structure

					and Functions, Channel Roles, Relationship Marketing in Channel Management
				Marketing Research	Understand the concepts of Marketing Research, MR interface with other disciplines, Evaluation of major MR agencies in India, Marketing Information System, Marketing Research process and Marketing Research design.
				Marketing of Services	Understand the concepts of Marketing of Services factors influencing the growth in Services Marketing, Development of Services Marketing Thought, Opportunities and challenges in services marketing, Differences between Goods and Services and Expanded Marketing Mix for Services.
				Product Policy & Brand Management	Understand the concepts of product policy and brand management, Product and classification of products, Conceptual issues in product management, market segmentation, positioning, and differentiation.
				Merchandise Management	Understand the concepts of Retail Product Management, the Role of Retail Product managers, retail buying organizations, Category Mix and Category Management Process
				Retail Operations Management	Understand the concepts of Retail Operations, Components and Functions, Retail Environment, Structural Change and Modern Retail Structures
				Digital Marketing	Students will be able to understand the technical jargon in digital marketing, online marketing mix, social media marketing, marketing through content management, online campaign management etc.,
				Advanced Production Planning & Control	Know well about the various components that makeup the manufacturing planning and control system and the interaction among them
				Supply Chain Management	Understand that the problems and issues within the respective fields of logistics are invariably complex, and require clear reasoning and analysis, in order to derive an appropriate course of action.

				Advanced Quality Management	Know business excellence models and be able assess organization's performance making reference to their criteria
				Technology & Innovation Management	Communicate the value of technology investments
				Productivity Management & Techniques	Understand the productivity of the firm and its problem
				Learning & Development	Apply creative and strategic thinking about performance analysis, job analysis, task analysis and learner analysis
				Advanced Behavioural Science	Grasp basic knowledge about behavioral science
				Compensation & Reward Management	Apply the pay model to understand how and why pay systems work.
				Labour Legislations	To know about disputes of workers in Industries, various sections to solve the disputes, Compensation to be given to employees under various conditions, rule of payment of Gratuity and bonus given to employees as additional benefits.
				International HRM	Understand the implications of changes in the global organisation of firms and the international workforce for HRM policy choices
				Workplace Counselling	Students will learn the necessity of counselling
				Employee Leadership & Empowerment	Understand the concepts of leadership, empowerment and management.
				Staffing Strategies	Able to know the concepts Staffing strategies planning etc.,
				Software Project Management	Design processes suitable for different types of projects

				Enterprise Resource Planning	Effectively describe problems, types of ERP, implementation projects and translate this information and use this information to anticipate and articulate the challenges associated with post-implementation management of ERP systems.
				Information Security & Risk Management	Understand the key themes and principles of information security management and be able to apply these principles in designing solutions to manage security risks effectively.
				Internet & Web Applications	Develop, deploy, and maintain electronic commerce (e-commerce) applications
				System Project (Project Based)	The students will work independently under the guidance of the faculty guide. They will carry out the study on any one of the functional on area of management by applying computer knowledge and skill.
				Sectoral Study (Project Based)	The students will do project on any business sector, They will gain much knowledge on the sector which will be chosen by them, They can do the project either by using primary or either by using primary or secondary data
				Entrepreneurship	Discuss examples of current entrepreneurs, their companies, and their importance to both the Canadian and global economies.
				Business Plan Development	Explain the business plan development process
				Design Thinking for Business	Students will able to understand the ways of thinking, integrative thinking design thinking application to business, stages of design thinking , customer experience journey, creative reframing, etc.,
41.	MBA- LM	The students will be able to streamline the whole	To focus on building skills in students for delivering customized logistic solutions.	Management Concepts and Organizational Behaviour643101	1.Analyse the behaviour of individuals and groups in organizations in terms of the key factors that influence organizational behaviour and the teams and organizations, evaluating transaction analysis. 2.Summarize the perceptions, learning, attitudes, and motivation in organizations, describes about the line

		shipping process across E-commerce, Manufacturing, Retail, FMCG, Hospitality, Aviation and Shipping domains. An MBA in Logistics would enable successful postgraduates find lucrative employment opportunities in product-based industries. Students will be trained to tackle challenges such as business	The course explores subject areas such as product distribution, supply chain, inventory control, transportation management and customer services. To train students over the complete cycle of distribution of goods from supplier to customer. The program wants to be recognized as highest standard for building managerial skills and capacity building for Logistics, Supply Chain and related industries by teaching contemporary curriculum, using best in class teaching methodology and		and staff authority and demonstrates the dynamics of organizational change
				Business Economics and Environment 643102	Analyze the environment of a business from the legal, regulatory, macroeconomic, cultural, political, technological and natural perspectives Construct and present scenarios that synthesize business environment information.
				Accounting and Financial Management for Logistics643103	1.Evaluates the financial data utilizing various financial statement analysis techniques. 2.Compares Logistics accounting strategic planning techniques.
				Principles of Logistics and Supply Chain Management643104	1.To understand the principles of logistics management 2.To understand the logistics role in the economy and the organization
				Quantitative Techniques 643105	1.Understand the basic Statistical measures of Central Tendency and Dispersion. 2Understand and apply Hypothesis Testing techniques to managerial problems.
				Information Technology For Business643106	The student should be able to conduct Net meeting The student should be aware of basic models of e-business
				Business Research Methodology643201	1Ability to report research within a stipulated time period 2.To apply a range of quantitative and qualitative research techniques to business
				Marketing Management for Logistics643202	1.The student should have the ability of analytical skills in solving marketing related problems. 2.The student should have the awareness of marketing management process.
				Production and Operations Management643203	1.Students would have knowledge on Effective Forecasting of Production functions, 2. Students would have Enhanced Planning of Product Design and Service Operations.

		value scope and scale, customer requirements and supply side innovation, service level and quality management etc.	technology To inculcate both functional / domain and personal skills to succeed as a manager in Logistics, Supply Chain and related industries.	Logistics Legal Framework And Maritime Documentation643204	The purpose of this subject is to enable students to analyze the legal structure. Student should understand the processes through which international shipping is organized and regulated.
				Export and Import Management643205	1.Programs will help to understand concept of foreign exchange. 2.Students should be aware of the documentation procedures for Export Import
				Strategic Logistics Management643301	1.Students will be able to understand the approaches of the theoretical bases of strategy and strategic management. 2.To imbibe the process of strategic management in logistics
				Distribution Management 643302	1.Evaluate logistics supply chain networks and strategies. 2.Formulate logistics strategies from a supply chain network perspective
				Rail, Road and Air Cargo Logistics 643303	1.Student should have better understanding about Indian Railways. 2.Student should develop knowledge on innovative schemes under transportation in Logistics
				Summer Training 643999	Students will have to undergo training for 6 to 8 weeks at the end of the II semester. A training report should be submitted to the Department within 40 days after completing the training. Thereafter the students will appear for a Viva-Voce examination conducted by a Panel consisting of the HoD, faculty guide, and an external examiner.
				Logistics Infrastructure 643501	1.Students will be able to discuss about port transportation and infrastructure for commodities. 2.Describe the infrastructure for E-commerce.
				Multi-Modal Transportation643502	1.Evaluate the multimodal and intermodal transportation and the maritime transportation. 2.Categorize the freight costing and pricing and

					illustrate the air mode of transportation
				Packaging and Material Handling 643503	1.Students cansolve technology and applied engineering problems using design packaging software. 2.Design protective packaging systems to solve hazards encountered in product distribution.
				Global Supply Chain Management 643504	1. Demonstrate the various issues in supply chain management. 2. To establish streamlined supply chain management processes.
				Agile Supply Chain Management 643505	1.Summarize the concepts of Agile in logistics and explain the concepts of Six Sigma in logistics 2.Identify the wastages of Agile logistics
				Supply Chain Risk Management 643506	1.Identify the factors influencing technological forces and Outline the management of global risks. 2.List the issues in international supply chain management and Clarify the regional and cultural differences in logistics
				International Logistics Management 643401	1.Students should be able to impart basic knowledge on Inventory management, Packaging and various kinds of packing. 2.Students should know about tariff structure.
				Small Business Management 643402	1.The student should be able find out a suitable idea for starting a small enterprise 2.The student should be able to visualize the importance of small scale enterprises in economic development.
				Warehouse Management 643403	1.The student should be able to understand the various functions of Warehouse and also about its various types and their advantages. 2.The student should be able to measure the metrics of warehouse operations.
				Logistics Project Planning Management	1.The student should be able to spell out the importance of various economic development activities sector wise.

				643507	2.The student should be able to identify suitable project at the end of the semester and to prepare a suitable project report for the same.
				Port Management 643508	1. Identify the interface of ports with logistics and the position of ports in the supply chain. 2. Analyse port performance and relevant quality management systems.
				Retail Logistics Management 643509	1. The student has to design suitable invoice management system for a retailer. 2. The student should have knowledge on 4pl logistics, its various operations and the role played in retailing operations.
				Procurement And Quality Management 643510	1. Analyse and apply appropriate techniques and methods in the integration of procurement management and global sourcing operations. 2. Evaluate and measure alternative procurement management and global sourcing options in the context of a flexible global supply chain.
				Retail Supply Chain Management 643511	1. The student has to design suitable invoice management system for a retailer 2. The student at the end of the course should be able to understand the various SCM operations and their importance in improving the business of retailers
				Sustainable Supply Chain Management 643512	1. Students should have better understanding on humanitarian logistics, fair trade, and sustainable collaborative networks 2. Ability to evaluate and appraise emerging supply chain sustainability models and Strategies
				Introduction To Logistics Management (Non Major Elective) 643601	1. To understand the principles of logistics management 2. To understand the logistics role in the economy and the organization
				Introduction To Supply Chain Management	1. Analyse the various activities and operations of all the key players in every supply chain network. 2. Demonstrate the various issues in supply chain

				(Non Major Elective) 643602	management.
42.	MBA International Business	<p>1) The program will make the students aware of key aspects of export / import management.</p> <p>2) The program will inculcate employability skills on International Trade.</p> <p>3) The program will groom the students in tune with Industry expectations.</p> <p>4) The program creates job opportunities to pursue in multinational companies.</p> <p>5) The program helps</p>	<ul style="list-style-type: none"> ➤ To render the opportunity to master all perspective and gain a global outlook on business so they can make the needed changes positive and sustainable. 	Management Concepts	<ul style="list-style-type: none"> ➤ The students would implement the various concepts of Planning, Decision making and controlling to help to solving the managerial problems. ➤ The students would practice the nuances of Ethics, Delegation, Coordination and Team work. ➤ The students would be able to practice management styles in the Global context.
			<ul style="list-style-type: none"> ➤ To produce world-class fundamental and applied research in international business. 	International Economics and Legal Environment	<p>The students shall be able to</p> <ul style="list-style-type: none"> ➤ Know the importance and problems of foreign capital ➤ Comprehend the types and nature of trade barriers ➤ Understand factors causing BOP disequilibrium and measures to correct the disequilibrium
			<ul style="list-style-type: none"> ➤ To bestow business with ethics and social values. ➤ To instil entrepreneurship conviction and alter them into actuality. 	Financial and Management Accounting	<ul style="list-style-type: none"> ➤ The students would comprehend the financial position of institutions through final accounts ➤ The students would know to evaluate the financial strength and challenges of business. ➤ The course builds confidence in students to go with the analysis of financial statements of any institution with the tools of analysis like ratios, flow statements, C-V-P relationship, etc
			<ul style="list-style-type: none"> ➤ To induct knowledge of the regional, cultural, language, geographical, beliefs and social differences in the 	Organizational Behaviour	<ul style="list-style-type: none"> ➤ The students would understand the importance of Organizational Behaviour ➤ The students would understand the Group dynamics and enrich the leadership quality in them.
				Information Technology for Business	<ul style="list-style-type: none"> ➤ The students would learn the operating systems and application software's needed for network setting in business. ➤ The students would use the various application of Microsoft office for day-to-day office

		the students to become successful freight forwarders and entrepreneur in International Trade.	global market. ➤ To devise management professional to evolve and exploit all aspect of global trade. ➤ To inspire students to contribute to the nation's prosperity.		work. ➤ The students would know how to execute buying and selling activities through the use of internet facility.
				Business Research Methodology	➤ The students would apply proper sampling designs and procedures to business research ➤ The students would transform data into information, and calculate and interpret basic descriptive statistics. ➤ The students would apply and interpret the different types of quantitative analysis
				Global Business Communication	➤ The students would produce different types of reports with appropriate format, organization and language. ➤ The students would understand the content and format and the importance various types of business letters and drafting such letters. ➤ The students would use different forms of written communication techniques to make effective internal and external business correspondence.
				International Human Resource Management	➤ The students would understand the concept of Human Resource management. ➤ The students would understand about grievance redressal procedure and disciplinary mechanism followed in organisations. ➤ The students would understand about employee compensation and trade unions.
				EX-IM Management	The student shall be able to ➤ Understand the importance of preparation of various export-import documents. ➤ Learn how to make payment system in International trade. ➤ Know about foreign trade schemes and institutions.

				Global Entrepreneurship Development	<p>The students shall be able to</p> <ul style="list-style-type: none"> ➤ Understand the importance of global entrepreneurship. ➤ Use structures, concepts, and methodologies to explore and potentially exploit global opportunities ➤ Understand the opportunities behind dozens of successful startups
				Quantitative Methods	<ul style="list-style-type: none"> ➤ The students would understand the linear programming and transportation algorithm. ➤ The students would understand the simulation and queuing methods. ➤ The students would understand the real life scenario in quantitative methods.
				Global Entrepreneurship (NME)	<ul style="list-style-type: none"> ➤ The students would understand the importance of global entrepreneurship ➤ The students would learn to think ‘globally’ and identify opportunities and challenges in the entrepreneurial ventures
				Foreign Exchange Management	<ul style="list-style-type: none"> ➤ The students would appreciate the role and limitations of forex reserve, workable portfolio of currency composition of forex reserves. ➤ The students would make market predictions and offer consultancy services to forex exposed. ➤ The students would understand the forex market nature, deals, strong and weak currencies, theoretical and real factors behind market moves and currency volatility
				International Marketing	<ul style="list-style-type: none"> ➤ The students would analyze the driving forces and various complexities of international marketing. ➤ The students would be aware of the various entry strategies to international market. ➤ The students would identify the essentials of international market in the context of economic development of less developed countries
				Customs Procedures and	<p>The student shall be able to</p> <ul style="list-style-type: none"> ➤ Identify the various aspects of customs such

				Documentation	<p>as rules to clear goods and the parties involved in customs clearance.</p> <ul style="list-style-type: none"> ➤ Understand legal regulations in international sale of goods. ➤ Understand the movements of cargo across the nation along with all the formalities and documentation. ➤ Understand the Customs and Excise law in India. ➤ Identify the roles of information technology in international trade.
				Port and Terminal Management	<ul style="list-style-type: none"> ➤ The students will be aware of port operations. ➤ The students will be familiar with port performance. ➤ The students can understand the role of port users.
				Business in Emerging Markets	<ul style="list-style-type: none"> ➤ The students will be able to develop a strategic model for effective management that incorporates aspects of strategic decision-making from both industrialized and emerging markets ➤ The students will be able to analyse the special character of currency risks associated with investments in emerging capital markets. ➤ The students will be able to explore the major factors influencing multinational companies' (MNCs) propensity to change the level of resource commitments during financial crises in Emerging markets
				Basics of Export	<ul style="list-style-type: none"> ➤ The students can identify major product decisions that are necessary for export markets in order to facilitate product adaptation to the markets in question. ➤ The students would apply various exports procedures and formalities to run an export business. ➤ The students can identify various sources of

					information, institutional infrastructure and incentives for exporters.
				Global Business Strategies	<ul style="list-style-type: none"> ➤ The students can recognize the different stages of industry evolution and recommend strategies appropriate to each stage. ➤ The students can formulate strategies for exploiting international business opportunities including foreign entry strategies..
				Multinational Financial Management	<ul style="list-style-type: none"> ➤ The students would present the role of multinational finance theories in dealing with the complexities faced by financial managers in this environment. ➤ The students can calculate the cost of capital for and estimate values of international investment projects and international corporate acquisitions. ➤ The students can evaluate and implement international equity and debt issues.
				Overseas Project Management	<ul style="list-style-type: none"> ➤ The students would know to measure the project feasibility and appraisal ➤ The students would know to manage the International projects. ➤ The students would know to tackle with costs and take wise decisions by applying various critical path techniques.
				International Logistics Management	<ul style="list-style-type: none"> ➤ The students would able to gain knowledge about international marketing logistics system, concept of customer service and international logistics management. ➤ The students would understand the Port route, Shipping and Chartering in International Trade. ➤ The students would understand the role of intermediaries in logistics management
43.	M.Com	On successful completion of the programme	On successful completion of the programme 1. Students will be	Advanced Financial Accounting	After completing this course, the students shall be able to 1. Learn the importance of accounting concepts and conventions in preparation of financial accounts

		<p>1. The students will be able to business enterprises.</p> <p>2. The students will be able to enter into entrepreneurship.</p> <p>3. The students will be able to serve as Income Tax and GST practitioners.</p>	<p>able to lead business Enterprises as managers.</p> <p>2. Students will be able to become Investment Consultant and Stock Brokers.</p> <p>3. Students will be able to establish consultancy services for logistics and accounting and taxation activities.</p> <p>4. Students will be able to conduct marketing research for assessing present and future market performance of durable and non – durable products</p>		<p>2. Prepare depreciation, for hire purchase and installment purchase accounts</p> <p>3. Prepare and interpret partnership accounts</p> <p>4. Become accounting officer in business organizations with through knowledge of international financial reporting standards.</p>
				Entrepreneurship Development	<p>The students shall be able to:</p> <p>1. Understand the entrepreneurship importance, entrepreneurial qualities, innovation and risk taking.</p> <p>2. Comprehend the types of entrepreneurs, entrepreneurial environment</p> <p>3. Appropriate the role and function of institutional agencies in entrepreneurship development.</p> <p>4. Make formulating and launching entrepreneurial ventures.</p>
				Principles and Practice of Management	<p>The students shall be able</p> <p>1. To understand and apply the management concepts and contributions of Management thinkers</p> <p>2. To apply the principles of management and practice them to attain the organizational goal.</p> <p>3. To process the functions of management like planning, organizing and staffing in business enterprises.</p> <p>4. To apply the techniques of direction in industrial enterprises.</p>
				Logistics Management	<p>The students shall be able</p> <p>1. Understood the concept of logistics management, Transportation and chartering.</p> <p>2. Analyze how the logistical decisions are made an impact on facility, inventory and transportation.</p> <p>3. Understood the strengthens and weakness of various transportation modes and performance cost analysis.</p> <p>4. Know how the cost of warehousing and material handling activities are happened in Logistics.</p> <p>5. Understood the importance of IATA in international marketing logistics.</p>

				Insurance and Risk Management	<p>The students shall be able to:</p> <ol style="list-style-type: none"> 1. Understand the contemporary developments in insurance sector in terms of life and non-life insurance, participation of foreign companies in Indian insurance business and IRDA regulations. 2. Read and explain insurance documents and insurance products and become insurance advisors to salaried and businessmen. 3. Comprehend derivatives and their use in managing financial risks. 4. Identify appropriate measures for financial risks and their applications. <p>Understand the growth of insurance business for public and private sector insurance companies and employment opportunities in insurance sector.</p>
				International Economics	<p>After completing the course, students shall be able to</p> <ol style="list-style-type: none"> 1. Ascertain the impact of trade blocks on international business. 2. Assess the consequences of international trade barriers on international business 3. Determine equilibrium in balance of payments and causes of disequilibrium. 4. Understand the purpose of creation of international financial institutions and financial and trade support rendered by such institutions.
				Management of Human Resources	<p>The students shall be able to</p> <ol style="list-style-type: none"> 1. Learn the functions of Human Resource Management in industrial enterprises. 2. Acquire skills needed to train employees in industrial organizations 3. Become a Manager for HR in industrial organizations. 4. Understand grievances of employees and redressal thereof.
				Business Environment	<p>After completing the course, the students shall be able to</p>

					<ol style="list-style-type: none"> 1. Determine causes for liberalization, privatization and globalization of business in all economics. 2. Understand the relationship between business environment and progress of business in global market. 3. Predict changes in the international business environment and its impact on business. 4. Learn the facilitating functions of IMF, WB and MIGA for international business.
				Advanced Management Accounting	<p>After the completion of the course, students will be able to</p> <ol style="list-style-type: none"> 1. compare management accounting with cost accounting 2. apply various accounting ratios for decision making 3. Comprehend the application marginal costing. 4. differentiate the various cost control techniques
				Business Research Methods	<p>The learners should be able to:</p> <ol style="list-style-type: none"> 1. Choose a research problem and device a design to probe and solve it independently. 2. Design Measurement tools with a fair degree of Validity and Reliability to study even phenomena for which no measures are readily available 3. Decide on the appropriate sampling for research problem and go about executing the same with minimal sampling and non-sampling errors. 4. Decide the method of data collection, design the data collection tools there-for, execute the data collection work and ensure the data are fit for analysis with appropriate editing, corroboration, reduction and sanitization
				Financial Management Techniques	<p>By the time students finish their work on this course, they should be able to:</p> <ol style="list-style-type: none"> 1. Perform financial statement analysis for the purposes of evaluating and forecasting in financial management. 2. Evaluate a firm's working capital position. 3. Manage the components of working capital to minimize the cost of carrying current assets and the

					<p>cost of short-term borrowing.</p> <p>4. Estimate the components of cost of capital by applying time value of money principles.</p> <p>5. Perform net present value analysis for capital budgeting purposes.</p> <p>6. Evaluate risk in the capital budgeting process.</p> <p>7. Demonstrate how the capital markets of India impact on a firm's ability to raise funds.</p> <p>8. Evaluate a firm's dividend policy.</p>
				Quantitative Techniques	<p>The students shall be able to:</p> <p>1. Understand the Lp programming and transportation algorithm.</p> <p>2. Get knowledge about Binomial, poisson and Normal Distributions.</p> <p>3. Understand the Simulation and Queuing methods.</p> <p>4. Understand the real life scenario in Quantitative methods.</p>
				Bank Management	<p>After completing this course</p> <p>1. Students will come forward to avail various services of commercial banks.</p> <p>2. Students will understand the process of opening deposit accounts in commercial banks and understand the process of borrowing from banks.</p> <p>3. Students shall understand the process of money transfer from one place to another through bank.</p>
				Export-Import Documentation	<p>1. Understand the export procedure and shipment of export cargo.</p> <p>2. Comprehend the letter of credit and types, export credit insurance.</p> <p>3. Appreciate the foreign trade policy and provisions and foreign trade schemes.</p> <p>4. Make role and functions of special institutions.</p>
				Organizational Behavior	<p>After successfully completing this class, students should be able to</p> <p>1. Create a plan to improve their own personal leadership skills</p>

					<ol style="list-style-type: none"> 2. Make recommendations to improve individual, team, or organisation performance. 3. Evaluate the benefits and challenges of alternatives to achieve high performance at the individual, team and organizational levels. 4. Utilize organizational behaviour theories, frameworks principles and tactics to prevent behavioural problems.
				Accounting and Financial Management	<ol style="list-style-type: none"> 1. After completing this course students will prepare final accounts. 2. Students will understand about how to manage finance and how to select various investment opportunities. 3. Students will understand to resign an optimum capital structure.
				Advanced Corporate Accounting	<p>The students shall be able to:</p> <ol style="list-style-type: none"> 1. Critically analyse and solve a variety of advanced corporate accounting problems. 2. Research and write a report on a contemporary corporate governance topic. 3. Understand, interpret and apply company accounting knowledge to a range of business situations. 4. Demonstrate an understanding of generally accepted accounting principles governing the topics studied 5. understanding the accounting requirements for a corporate group and familiarity with the theory underlying the methods used to account for inter-company investments. 6. Ability to prepare consolidated balance sheet for a corporate group. 7. Understanding of the principles of accounting for investments in associates. 8. Able to select the appropriate accounting techniques, as prescribed by the relevant accounting standards, and perform the accounting treatment for each type of inter-entity relationship (including preparing consolidated

					financial statements). 9. Discuss the strategic, legal, and assurance issues associated with establishing inter-entity relationships, and generate recommendations.
				Modern Marketing Management	After completing the course, the students shall be able to 1. Understand the concepts of marketing and importance of marketing mix. 2. Determine factors of determining consumer behaviour and design marketing policies accordingly. 3. Design product mix, price mix, place mix and promotion mix according to expectations of consumers and changes in the marketing environment.
				Business Legislations	1. Understand the contract, consent, legality of object, Quasi contract, remedies. 2. Comprehend the types of agents, rights and duties of agent termination of agency. 3. Appreciate the role and limitations of sale of goods, sale and agreement to sell condition and warranties. 4. Make companies act 1956, prospectus, incorporation of company, articles of association
				Income Tax Law and Tax Planning	The students shall be able to 1. Understand the sources of income generated from the income tax by the government 2. Gain the knowledge about plan for tax they become a future employee. 3. Know the rate income tax from the various assessee. 4. Got the knowledge of the responsibility of the income tax assessee. 5. Know the number of taxable assessee and the nature of residential status of them.
				Principles of Project Management	After completing the course the students shall be able to 1. Learn the functions of project management and process of screening of project ideas 2. Become project managers with through knowledge

					<p>on project report preparation and presentation</p> <p>3. Apply project appraisal techniques to assess feasibility of a project</p> <p>4. Apply project control techniques to monitor projects continuously and avoid project time and cost overruns.</p>
				Principles of Forex Management	<p>The students shall be able to</p> <ol style="list-style-type: none"> 1. Compute forward rate and cross currency rate 2. Advise for buying and selling of foreign exchange 3. Apply hedging techniques for managing 4. Exchange rate fluctuations risk 5. Predict changes in the exchange rate
				Decision Making in Financial Services	<p>The students shall be able</p> <ol style="list-style-type: none"> 1. Understood the financial systems are to works proficiently with financial market and institutions. 2. Developed the skills for practical application in the field of corporate finance, financial services and risk management. 3. Provide necessary foundation of mutual funds, merchant banks and its services. 4. Make sound decision making capability on leasing finance and hire purchasing finance. 5. Establish the knowledge on venture financing and credit ratings.
				Management Concepts	<p>The students shall be able</p> <ol style="list-style-type: none"> 1. To understand and apply the management concepts and contributions of management thinkers 2. To apply the principles of management and practice them to attain the organizational goal. 3. To process the functions of management like planning, organizing and staffing in business enterprises. 4. To apply the techniques of direction in industrial enterprises.
				Advanced Cost Accounting	<ol style="list-style-type: none"> 1. Understand the concept of cost and compute cost for the products produced by manufacturing enterprises. 2. Comprehend the applications of various methods of

					<p>existing used in manufacturing and service sector organizations.</p> <p>3. Apply cost control techniques for cost reaction and control in business enterprises.</p> <p>4. Become an adviser for the process, methods and techniques of costing in business enterprises.</p>
				Portfolio and Investment Management	<p>After completing the course, the students will be able to</p> <p>1. Calculate and interpret expected and historical risk and return measures for individual securities and a portfolio of securities.</p> <p>2. Describe the steps in the portfolio management process and formulate an investment policy statement.</p> <p>3. Calculate the covariance and correlation between securities and explain how correlation affects the standard deviation of a portfolio.</p> <p>4. Assess portfolio performance.</p>
				GST and Customs Law	<p>After completing the course, the students will be able to</p> <p>1. Assess the need for one nation, one tax and one market through GST.</p> <p>2. Understand Importance of enhancing the national revenue through GST.</p> <p>3. Known the generating the employment opportunity through GST.</p> <p>4. Know the GST council is the key decision making body for all GST related matter.</p> <p>5. Understand the GST is boost for competitiveness and performance in India manufacturing sector.</p> <p>6. Known to eliminated the multiple tax system through GST</p> <p>7. Known GST to more benefited to the Indian service Industry.</p>
				Strategic Business Management	<p>After completing the course the students shall be able to:</p> <p>1. Plan and implement corporate level, business level</p>

					<p>and functional level strategies for competing in the global market.</p> <p>2. Learn the uses of BCG matrix, Michael porter's generic strategies in framing business strategies.</p> <p>3. Realize the contentious of strategic alliances and joint ventures for the business development of domestic and multinational enterprises.</p> <p>4. Learn the need for competitive advantage, core competency and organization strategies for retaining market share in the domestic and global market.</p>
				International Business Management	<p>After completing the course, the students shall be able to</p> <p>1. Assimilate and disseminate the subject markets discussed in WTO and various multilateral agreements monitored by WTO</p> <p>2. Assess the impact of agreement on agriculture agreement on subsidies and countervailing measures in developed and developing countries.</p> <p>3. Ascertain the significance of agreement on TRIPS and its consequences in India.</p> <p>4. Determine changes in trade and investment released agreements monitored nu WTO based on global business environment</p>
				Managerial Economics	<p>After completing the course, the students shall be able to</p> <p>1. Apply principles of economics in day-to-day business activities</p> <p>2. Design production based on determinants of demand in the market</p> <p>3. Understand functions of production, price and profit</p> <p>4. Ascertain the impact of macro-economic factors on managerial decisions in industrial enterprises.</p>
				Managerial Communication	<p>The students shall be able to</p> <p>1. Understand the content and format and importance various types of business letters and drafting such letters</p>

					<p>2. Use different forms of written communication techniques to make effective internal and external business correspondence.</p> <p>3. Produce different types of reports with appropriate format, organization and language.</p>
44.	MBA(Corporate Secretaryship)	<p>1. The students can become company secretaries in companies with more than Rs.10 crores of paid up capital.</p> <p>2. Successful students can pursue the ICSI Programme and qualify themselves (or) undertake useful research by joining Ph.D programme s.</p> <p>3. They can join Colleges and</p>	<p>1. The Students would be able to work under the practicing company secretary to gain the professional knowledge</p> <p>2. The Students would be able to clear professional examinations to become a Company Secretary</p> <p>3. The students would be able to become as GST consultant after the successful completion of the program.</p>	<p>622101- Principles And Practice Of Management</p> <p>622102- MANAGERIAL ECONOMICS</p> <p>622103- FINANCIAL AND COST ACCOUNTING</p> <p>622104- ORGANISATIONAL BEHAVIOUR</p> <p>622105- COMPANY LAW & PRACTICE – 1</p> <p>622701- INFORMATION TECHNOLOGY FOR BUSINESS</p>	<p>➤ After reading the course the students would be able to understand the principles and practice & management.</p> <p>The students would be able to get an employment opportunity in HR related job.</p> <p>The students would be able to get employment about business analysts' related jobs.</p> <p>➤ The students would offer consultancy services for economic analysts</p> <p>➤ The students would be able to get employment about the cost and financial related job.</p> <p>The students would offer the consulting services by the cost and accountant professionals.</p> <p>➤ After completion of the course the students would be able to understand the concepts and theories of individual and organisational behaviour.</p> <p>➤ The students to get employment opportunities in the organizations</p> <p>➤ After completion of course the students would be able to understand the company administration</p> <p>➤ The students would be able to get employment in share market. And share broking operation</p> <p>➤ The students would be able to get employment in E-commerce, project design etc...</p> <p>➤ The students would be able to know the</p>

		Universities as teachers to teach the UG/PG programmes and students can take up the IT/GST practitioners' jobs.			Accounting tally package
			622 201-BUSINESS RESEARCH METHODOLOGY	<ul style="list-style-type: none"> ➤ The students would be able to get job opportunities in project entry operators. ➤ The Students learn the course to offer consultancy service in this research area 	
			622 202-BUSINESS LAW	<ul style="list-style-type: none"> ➤ After reading this course the students would be able to practice the procedures for formation of buying contracts. ➤ The students would be able to offer consultancy service regarding insolvency and Bankruptcy code. 	
			622 203-SECURITIES LAWS AND CAPITAL MARKETS	<ul style="list-style-type: none"> ➤ After completion of this course the students will possess expertise knowledge about the capital market. ➤ The students getting employment in stock broking firms and mutual fund services. 	
			622 204-COMPANY LAW AND PRACTICE – II	<ul style="list-style-type: none"> ➤ After Completion of this course the students would be able to apply their knowledge. ➤ To offer consultancy services for winding up of companies. 	
			622 205-FINANCIAL MANAGEMENT	<ul style="list-style-type: none"> ➤ After completion of the course in the students would be assimilate the financing function of companies. ➤ The students would get employment opportunities in finance department in the companies. 	
			622 702-BANKING & INSURANCE: LAW AND PRACTICE	<ul style="list-style-type: none"> ➤ After reading this course students would be able understand the banking and insurance activities ➤ The Students would be able to get employment in banking and insurance sector. 	
			SECURITIES LAWS AND CAPITAL	<ul style="list-style-type: none"> ➤ After completion of this course the students will possess expertise knowledge about the capital market. 	

				MARKETS	<ul style="list-style-type: none"> ➤ The students getting employment in stock broking firms and mutual fund services.
				622 301- GENERAL LAWS	<p>The students shall be able to</p> <ul style="list-style-type: none"> ➤ Appreciate the Indian constitution and interpretation of the laws prevailing in the country. ➤ Comprehend the law relating right to information and cyber regulations.
				622 302- ECONOMIC AND OTHER LEGISLATIONS	<ul style="list-style-type: none"> ➤ know the powers and functions of various authorities under EOL ➤ Offer consultation services relating to arbitration procedures and management of IPR and File applications for trademark, patents and copyrights registrations.
				622 303- CORPORATE AND MANAGEMENT ACCOUNTING	<p>After reading this course the students should be able to</p> <ul style="list-style-type: none"> ➤ Prepare necessary accounts in case of amalgamation of companies and Audit the accounts to ascertain the true and fair financial position ➤ A comprehensive understanding of the advanced issues in accounting for assets, liabilities and owner's equity. The ability to account for a range of advanced financial accounting issues.
				622 304- CORPORATE FUNDING AND LISTING OF SECURITIES	<ul style="list-style-type: none"> ➤ The Students would be able to get employment regarding equity research, stock trading agency.etc. <p>Offer consultancy services for venture capitalist.</p>
				622 305- CORPORATE COMPLIANCE MANAGEMENT	<ul style="list-style-type: none"> ➤ The program participants could understand th ➤ Offer consultancy services for certification by professionals.
				622 306- INCOME TAX LAW AND	<ul style="list-style-type: none"> ➤ The students would be able to get employment Tax planning department. ➤ Students learn the course to offer consultancy

				PRACTICE	service in e-filing.
				622 501-ETHICS, GOVERNANCE & SUSTAINABILITY	<ul style="list-style-type: none"> ➤ The students getting employment in CSR department of companies. ➤ To offer consultancy services for social auditing and reporting formalities
				622 502-HUMAN RESOURCE MANAGEMENT	<ul style="list-style-type: none"> ➤ To Design and formulate various HRM processes such as Recruitment, Selection, Training, Development, Performance appraisals and reward Systems, Compensation Plans and Ethical Behaviour. ➤ To evaluate the developing role of human resources in the global arena.
				622 503-INTERNATIONAL BUSINESS LAW	<ul style="list-style-type: none"> ➤ The program participants could understand the Foreign trade Policy and procedures, WTO provisions and administration. ➤ After completion of the course ,the students will possess expertise knowledge about the international business law and practices
				ETHICS, GOVERNANCE & SUSTAINABILITY	<ul style="list-style-type: none"> ➤ The students getting employment in CSR department of companies. ➤ To offer consultancy services for social auditing and reporting formalities
				622 401-DRAFTING AND CONVEYANCING	<ul style="list-style-type: none"> ➤ The students would get employment opportunities in legal form and secretarial department in companies. ➤ The students would be able to offer consultancy services for preparation of various business needs.
				622 402-CORPORATE RESTRUCTURING	<p>The students shall be :</p> <ul style="list-style-type: none"> ➤ Familiar with the national and global scenario relating to corporate restructuring Offer consultancy services regarding takeovers and disinvestment.

					<ul style="list-style-type: none"> ➤ Undertake financial restructuring in Companies and offer consultancy ➤ services regarding takeovers and disinvestment.
				622 403- SECRETARIAL AUDIT AND DUE DILIGENCE	<ul style="list-style-type: none"> ➤ After completion of the course the students would be able to acquire knowledge in compliances enactments, rules and regulations. <p>The students get job opportunities in the secretarial audit with various business transactions.</p>
				622 404- GST AND CUSTOMS LAW	<ul style="list-style-type: none"> ➤ After the completion of the Course, Students are able to acquire good knowledge on indirect taxes GST and Customs Law. ➤ To understand the impact of new regulation and kinds of changes needed to be done.
45.	MBA (B&I)	After the completion of the program, the student will be able to develop as committed banking / insurance professionals capable of driving the banking sector growth and financial stability.	<p>1. The students will develop a comprehensive knowledge on all facets banking and insurance.</p> <p>2. The students will have better understanding of complex issues in banking and insurance.</p> <p>3. Analytical and problem solving skills better for risk management in banking and insurance industry.</p> <p>4. The program will shape him as a perfect banking / insurance</p>	<p>Management Concepts and Organizational Behaviour - 632101</p> <p>Business Environment - 632102</p> <p>Financial Accounting - 632103</p> <p>Practice of Commercial Banking - 632104</p> <p>Rural Banking - 632105</p>	<p>After learning this course, the learners will have a comprehensive knowledge about Management concepts and will be in a position to practice the art of managing human behaviour at the individual, group and organizational levels.</p> <p>Have deep insight into various components of business environment to understand the importance of scanning the environment and to gauge the impact of environmental forces on the functioning of a modern business unit.</p> <p>The students will be able to use accounting tools to analyse the operating performance and financial position of a banking and insurance company</p> <p>After learning the course, the learners will gain a comprehensive knowledge on the theoretical and practical aspects of commercial banking which will shape them as successful future bankers.</p> <p>Learners can understand the existing conditions of rural economy and rural banking scenario in our country which will facilitate them to contribute adequately for the development of Indian rural economy as a professional banker.</p>

			professional in the industry.	Co-operative Banking 632E01	The learners will have an insight into the Cooperative banking operations, various laws relating to cooperative banks and the supervisory and regulatory role of RBI concerning cooperative banks.
				Ethics in Banking - 632E02	The learners can realise the need for ethical banking practices and understand about the changing dynamics of banking ethics.
				Investment Management - 632E03	The learners will be able to select right securities for investment and offer advisory services to the investor for efficient management their investments.
				Information Technology for Business - 632701	<ol style="list-style-type: none"> 1. Demonstrate effective computing skills. 2. Enhance the Professional use of e-mails and internet. 3. Adopt effective ways of application of ICT in business.
				Numerical Ability-632CG01	-
				Business Research Methodology - 632201	The students will attain a thorough knowledge in Planning, designing, executing, interpreting, evaluating and reporting research within a stipulated time period and to apply a range of quantitative and qualitative research techniques to business and management problems or issues.
				Managerial Economics - 632202	The learner will be in a position to make effective managerial decisions in banks and insurance organizations.
				Monetary Management - 632 203	<ol style="list-style-type: none"> 1. unfurl the structure of the Indian Money Market. 2. To evaluate the role of RBI as the Central Bank of our country.
				Banking Law - 632204	The learners will be able to gain comprehensive knowledge about various legal enactments on banking

					which will help them to improve their professional competence.
				Financial Management - 632205	The learners are expected to be thorough with the financial market conditions and enable them to make perfect decisions on financial aspects when they assume managerial positions in banks and insurance organizations.
				Introduction to Insurance - 632206	The students will be in a position to understand the various aspects of insurance and to utilise the opportunities in the insurance sector.
				Health Insurance - 632E04	The students will be familiar with the health insurance products, practices and the prospects of the sector.
				E-Customer Relationship Management - 632E05	To facilitate the students to understand the application of ICT in customer relationship management.
				Non Banking Finance Companies in India - 632E06	The learners can gain knowledge about the role of NBFCs in the financial markets and understand their business practices and strategies.
				PRINCIPLES OF BANKING AND INSURANCE - 632NME IDC1	To gain familiarity with procedure of transacting with a bank To understand the principles of insurance and its practicalities.
				Reasoning Ability- 632CG02	
				Risk Management in Banking & Insurance - 632301	To make the learners to develop a comprehensive and practical knowledge in the emerging field of risk management in Banks and Insurance organizations and which will facilitate them to face the challenges of risk management in these industries easily.
				Digital Banking - 632302	Become Tech savvy practitioners and recognize the role of digital banking in the modern era. Understand the different aspects of computerization in banks and competent to handle ATMs, Electromagnetic

					cards, E-purse etc., professionally. Make use of ECS, NEFT and RTGs as payment gateways and realize the threats in digital banking.
				Life Assurance - 632303	The students will develop a comprehensive knowledge on the various aspects of life assurance which will shape them as successful future insurers.
				Foreign Exchange - 632304	The students will be in a position to gain comprehensive and practical knowledge about exchange risk management and the role of different institutions associated with that process.
				Executive Communication - 632305	The student are expected to follow professional way of communication with others effectively as executives in various contexts.
				Credit Management – 632305	Able to evaluate the loan proposal properly and Fine tuned to assess the credit needs of the borrowers. Exposed to the intricacies involved in the management of NPA in banks.
				Institutional Training – 632777	-
				Financial Derivatives – 632E07	The learners will develop a sound theoretical knowledge on financial derivatives and the derivatives market in India.
				Micro Finance – 632E08	The learners will have a thorough knowledge about Practical aspects of Microfinance.
				International Banking and Finance – 632E09	The learners after studying the course will gain a comprehensive knowledge on international banking and finance.
				Principles of Insurance – 632NME IDC2	The students will be in a position to understand the various aspects of insurance and to utilise the opportunities in the insurance sector.
				Language Ability - 632CG03	
				General Insurance – 632401	The students will be in a position to understand the various aspects of insurance and to utilise the opportunities in the insurance sector.

				Financial Services - 632402	The learners will be able to understand the role, significance and problems of the financial service industry thoroughly
				Marketing of Banking Services	The learners are expected to develop a comprehensive and updated knowledge in the emerging area of Bank Marketing to become a successful future marketers of bank products.
46.	MBA (Tourism Management) Stream 1 – Tourism Management	Learners would understand the need for different management approaches for different types of tourism; discuss the role of tourism as an agent for cultural change and understanding; and, assess the specific characteristics and trends in emerging specialist areas of the tourism industry (e.g. festivals, events, heritage, wellness	The Students at the end of the program will be have a sound Knowledge about the hospitality and tourism industry practices. Ability to understand the process and apply specific professional practices to improve effectiveness and productivity in tourism operations. Ability to develop a framework for research in the tourism domain in order to suggest innovative ideas to develop the tourism business. Ability to update the current strategies followed globally in hospitality and tourism and to adopt the same to the Indian	Management Concepts	Completing this course will make the students knowledgeable on the historical, current, and future issues in management and to demonstrate the roles, skills and functions of management
				Tourism – Principles & Practices	After completion of this course the student should be able to understand the various facets of Tourism industry, regulations and various agencies playing a vital role in the development of the tourism sector.
				Financial Reporting and Analysis	After completing this course the students will able to. To know Strategic financial component and to apply the conceptual framework of financial statement data to assess the strengths & weaknesses of firms, the opportunities and threats of industries, the expectations of society vis-à-vis those firms, and the values of key personnel.
				Organizational Behaviour	After completing this course students will be able to To apply problem solving and critical thinking abilities to analyze the kinds of choices available for developing alternative organizational behaviour approaches in the workplace. The students will able to demonstrate the applicability of analyzing the complexities associated with management of individual behaviour in the organization.
				Managerial Economics	On successful completion of the course the student shall develop a good understanding about the basic concepts of economics and objectives of business. The students will comprehensively understand, interpret, compare & contrast, explain how demand and supply

		tourism and other new markets). Subsequently they will be working in, or aspire to, careers in all aspects of the international tourism industry, which may include government tourism agencies, tour operators, airlines, cultural heritage, festival, wellness and / or other specialist tourism operations.	context professionally. On successful completion of the programme: 1.Students will be provided in-depth understanding on the basic concepts and theories in various aspects of disaster management 2.Provided exposure to the national and international institutional and governance frameworks relating to disaster risk reduction and management;		equilibrium is important for business and various also the market structure.
				Tourism and Hospitality Law	After completing this course at the end of the course the student will be able. To know the inter relationship of Hotel laws with other Laws prevailing in India and its licensing throughout India, Labour laws, Environmental law protection and its effect on hotel industry, Hotel law(Insurance, and Law of contract). The students also gain knowledge about the fundamentals of property, agency, and employment law
				Tourism Resources of India	After completing this course the students will able to To acquire knowledge over the vast tourism resources of India and can conceptualize a tour itinerary based on variety of themes. To have a clear understanding about the History and Cultural Heritage of India and its Significance in Tourism Resources
				Soft Skill Development I	The course is intended to develop Communication Skill, Presence of Mind, Critical, Analytical thinking and other soft skills of the Students.
				Business Research Methodology	After completing is course the students will enable To apply a range of quantitative and / or qualitative research techniques to business and management problems / issues. To Understand and apply research approaches, techniques and strategies in the appropriate manner for managerial decision making To Demonstrate knowledge and understanding of data analysis and interpretation in relation to the research process.
				Global Tourism Geography	After completing this course the students will enable to gain knowledge about to provide an overview of global tourism trends, IATA standards along with time zone differences and climatic conditions in various continents. To familiarize on the locales, attractions, and accessibility to major tourist Destinations across the continents.

			3. Students will be approached to risk and vulnerability analysis, and damage loss and needs assessments to the students;	Tourism Strategic Marketing	The Students after completing the course will be able to understand basic marketing concepts, strategies adopted by different business houses and more specifically towards developing a marketing plan for a Tourist destination or property.
			4. Students will understand various sources of disaster finance and institutions in the larger development context;	Human Resource Management	After completing this course the students will enable to the develop, implement and evaluate employee recruitment, selection and retention plans and processes. To develop the human resource in order to have mutual benefit to the employees and employer.
			5. Students will be prepared to become trained personnel to find place in national and international disaster risk reduction and	Travel Agency & Tour Operation	At the end of the course students will be able to recollect the prevalent procedures and processing style in respect of travel agency business and its management. And also the basic procedures adopted by agencies in the specific fields and focuses on the prescribed requirements by the administrative machinery looking after specific aspects of tourism and allied activities.
				Tourism Products and Services	At the end of the course, various tourism products and services offered in India can be identified and the students will also be able to analyze the range of tourism products and services which emphasize the importance of tourism demand and supply.
				Soft Skill Development II	After completing this course the students will know about the comprehend conceptual dimensions of tourism industry, to understand dynamics of tourism Business and its impact.
				IT Skills of Tourism	To identify and analyze user need and take them into account in the selection, creation, evaluation and administration of computer based systems useful to tourism sector.
				Destination Tour & Report	To understand the planning and organizing a tour and the pertinent issues in Tourism and Hotel Industry. Students have to submit a report at the end of the tour

			management organizations, positions at government and non-government organizations, consultancy firms and other leading academic, research and training institutions.	Strategic Management	After completing this course the students will gain knowledge about To acquire analytical and conceptual skills and the ability to look at the totality of situations and to develop strategy formulations, Strategy implementations, evaluation procedures, New Business Models.
				Eco- Tourism	After the completion of the course, students will be aware of the significance of sustainable tourism in the changing global scenario. The students will gain knowledge on sustainable tourism development, responsible tourism, conventions and ethics relating to sustainable tourism, etc.
				Destination Planning & Management	The learners shall be competent for analyzing how the destinations are Segmented and handle a destination on their own. The learners shall be familiarizing with destination branding practices.
				Tourism French	After completion of this course the students are familiarized with the listening, speaking and reading skills in French.
				(NME – II)	After completion of this course, students gain insights on International Hotel Regulations and understand the duties and responsibilities of staff. Students also got familiar with Front Office, Housekeeping and other services related to hospitality.
				Summer Training Report & Viva Voce	A report of the project work should be submitted to the Institute within 30 days after completing the project work
				Soft Skill Development – III	Preparation of Model Report for a SME business. Preparation of Press Note – Committee Reports
				a. Tourist Behaviour & Cross Cultural	After doing this course, student will be able to understand the motivators and deterrents of tourist behaviour and the trends in tourism market on tourist behaviour.

				Management	Understanding the importance of culture and cross-cultural linkages in tourism.
				b. Event Planning & Management	Acquisition of skills in organizing all types of events individually or in groups. Understand the techniques and strategies required to plan an event. Understand the importance of event planning Have basic knowledge about various responsibilities of event manager.
				c. Logistics and Supply Chain Management	After completing this course the students will gain knowledge about ability to build and manage a competitive supply chain using strategies, models, techniques and information technology. The students will acquire knowledge about understand the importance of major decisions in supply chain management for gaining competitive advantage.
				d. Cargo Management for Tourism	After completing this course the students will gain knowledge about various conventions and regulatory bodies with respect to cargo handling. Students will gain practical knowledge on currency codes, airline codes and TACT rules etc, Students are trained to services like packaging, marking and labeling and cargo rating etc.
				a. Front Office Operation	At the end of the course the student will be able to familiarize with the need for organization in hotels, organization of various departments, major departments of the hotel. The organization and functioning, the front office department and its function areas, Sections and lay out of front office, Duties and responsibilities of the front office employees.
				b. Accommodation Operation	After completing this course the students will gain knowledge about trained to understand the practical application of accommodation operations after the completion of the course. The students will enumerate areas of coordination between housekeeping and other departments.

				c. Hospitality Marketing Management	At the end of the course, the student will have the ability to identify consumption needs of tourists, Segment tourists, Design the marketing Ps to meet the needs. To implement marketing strategies and Build long term relationship between the firm and the tourists.
				d. Services Operations and Quality Management	After the completion of the course, the students will understand the Service design elements of hospitality industry Students also understand various strategies involved in Service Operations and Quality Management.
				Hotel Administration	After the completion of the course, the students will understand the features and functions of hospitality services. The students are equipped to perform all front office, housekeeping, F& B Services in Airlines, Cruise and Banquette etc.
				Travel Media & Public Relation	Provide basic understanding about travel journalism and its role in tourism promotion. Equip the students with the practical know-how on travel writing and the dynamics of making travelogues.
				Tourism Business Innovations and Entrepreneurship in Tourism	At the completion of the course, the students are trained to create their own business plan and are able to develop and launch tourism related small business.
				Soft Skill Development – IV	Two Sessions per week will be devoted to several of the following activities to develop Organizing and Event Management skills of the students: Conceiving an idea of an event, Event Planning and Budget Preparation Event Marketing and Publicity Organizing the Event as per the plan Regular in class competitions and Games like Quizzes, Ad Zaps, Aptitude Tests and Mock Interviews

				Project Work Viva Voce	A report should be submitted to the Department within 15 days after completing the project.
				a. Online Tourism Services	Completion of the course enables the students to familiarize with online tourism business concepts To acquaint with Ticketing Software and To give insights into E-Tourism and its payment methods
				b. Customer Relationship Management	After completing this course to use strategic customer acquisition and retention techniques in CRM. To understand how customer relations is related to other business functions and its importance to the success of the business entity.
				c. Foreign Exchange Management	After completing this course the students will gain knowledge about Foreign Exchange market. The students also acquire economic fundamentals.
				d. Airport Operations	This course provides a framework for the airport operations and prepares the students to understand the aviation industry operations. After completing this course the students will gain knowledge on airport ground handling models and issues
				a. Facility Management	The students should be able to to explain goals and objectives of facilities and maintenance management and describe the theoretical aspects of utility systems, energy conservation, mechanical equipment and building design. To know about evolving nature of facilities management functions and practice.

				b. Materials Management and Purchase System	Student gains knowledge on effective utilization of materials in manufacturing and service organization. To know how to identify purchasing activities and know the importance of purchase management. To acquire knowledge about Materials Management and explain the relationship between Materials management department and other departments.
				c. Food and Beverage Management	After completing this course the students will understand the fundamental principles of food preparation, cooking techniques, material handling, heat transfer and professionalism. To identify a variety of managerial, production, and service positions that is typical of the food service industry and describes the roles these positions play in providing foodservice
				d. Allied Hospitality Services	On Completion of the course, students can attain knowledge over the concepts like industrial, transport, hospital, cruise liner and Institutional catering Students are exposed to functions including food costing, diet kitchen and outdoor catering services etc.,
47.	M.B.A (Disaster Management)	On successful completion of the programme: 1. Students will be enriched with insights on the dimensions of disasters caused by nature and		Basics of Disaster Management (646101)	Students will be enriched with insights on the dimensions of disasters caused by nature and hazards induced by human activities.
				Disaster Risk governance (646102)	Students will be able to learn the interrelationship between governance and disaster risk reduction and the role of governance institutions at multiple scales in mitigating disaster risk.
				Managerial Economics (646103)	Students will be able to critically analyze and explain micro economic decision making at individual and firm level as well as economic management at macro and country level.

		hazards induced by human activities.		Management Concepts (646104)	Students will be able to understand the basic concepts and principles of management and apply them in the context of disaster mitigation and management.
		2.Students will learn the link between disaster mitigation and development planning.		5.Ecosystems and habitat (Elective) (646501)	Students will be able to learn varied types of ecosystems and the interrelationship between ecosystems and habitats.
		3.Students will understand the intricate link between climate change impacts and adaptation processes in different sectors such as agriculture, water and coastal areas.		Research methodology (646201)	The students will be able to design and execute research plans using the major methodologies of the discipline (surveys and qualitative techniques).
				2.Environmental Economics and Management (646202)	Students will be able to learn the environmental regulatory approaches for correcting market failures and making use of economic evaluation techniques to assess environmental issues and policies.
				3.Principles of remote sensing and GIS (646203)	Students will be learnt the basic concepts and principles of remote sensing, GIS and GPS.
				4. Statistical Methods (Elective) (646502)	Students will be able to understand and apply descriptive and inferential statistical techniques using excel and SPSS.
				Disaster Mitigation (646301)	Students will be learnt the link between disaster mitigation and development planning.
		4.Students will be enriched with practical application of remote sensing and		2.Geoinformatics in Disaster Mitigation (646302)	Students will be enriched with practical application of remote sensing and GIS techniques in disaster management.
				3.Disaster Economics and Finance (Elective)	Students will be able to learn the theoretical foundations of risk economics and appreciate linkages between disaster financing and development financing.

		GIS techniques in disaster management.		(646503)	
		5.The students will be able to acquire significant knowledge to face various competitive examinations.		1.Climate change and Disaster Management (646401)	Students will know the intricate link between climate change impacts and adaptation process in different sectors such as agriculture, water and coastal areas.
				Disaster Response (646402)	Students will be enriched on the needs during disaster relief operations and logistics arrangements.
48.	M.Ed.,	1. Developed the professional capacity building in the context of teaching and learning. 2.Able to demonstrate professional ethics 3. Understood the academic, administrative and managerial capacities. 4. Developed commitment towards	1.1 Gained the foundation of education philosophy, sociology and psychology as a teacher educator. 2. Understood the various methods of educational research as an educational researcher. 3.To be able curriculum planner by knowing the types and principles of the curriculum. 4. Able to apply ICT in different aspect of education.	742101 - Philosophical and Sociological Perspectives of Education 742102 - Advanced Educational Psychology	<ul style="list-style-type: none"> ➤ Gain understanding on the concept and nature of philosophy with the different discipline and various societies. ➤ Able to classify the schools of Indian philosophy and distinguish those schools from the doctrines of eastern and western thinkers. ➤ The information of the learners will be processed over the determinants of the social change and its impact on the world. <p>Make the ascertaining capacity over the socialization process.</p> <ul style="list-style-type: none"> ➤ Correlate the prerequisite knowledge with the psychological concepts and will conceive the new ideas of the theories of psychology. ➤ Understand the individual difference of the students in terms of physical, mental, emotional and social aspects. ➤ Apply the learning theories in to the day-to-day pedagogical aspects. <p>Use the personality and creativity concepts in their daily life and professional competence.</p>

		society. 5. Indulge in innovative educational practices. 6. Involve in research and knowledge creation and dissemination	5. Gained the knowledge of the educational system of different countries. 6. Able to realize the values for the personal, professional and social life. 7. Learned the economic, political and democratic policies in education	742103 - Research Methods in Education	<ul style="list-style-type: none"> ➤ Prepare a research proposal by their own. ➤ Apply the tools and all the methods of educational research appropriately. ➤ Involve in the execution of the research activities in all the relevant fields. <p>Competent in preparing project report and documentation.</p>
				742501 - Elementary Education	<ul style="list-style-type: none"> ➤ Understand the concept of Elementary Education and different approaches. ➤ Gain knowledge of Right to Education and its role. ➤ Learn different Educational commissions and its recommendations. ➤ Understand the schemes and programmes in Elementary Education. <p>Learn different Pedagogy in Elementary Education.</p>
				742502 - Secondary Education	<ul style="list-style-type: none"> ➤ Understand the modalities of secondary education management information system. ➤ Approve the existing teacher education curriculum from the standpoint of its relevance to the demands of present day school curriculum. ➤ Develop understanding of various strategies of teachers' professional development. <p>Use various methods and techniques for the identification of training needs.</p>
				742105 - Yoga and Health Education	<ul style="list-style-type: none"> ➤ Understand the need for yoga in our life. ➤ Know the origin and history of yoga. ➤ Compare Patanjali yoga Sutra with Thirumandiram. ➤ Understand the causes of diseases. ➤ Learn the methods of yoga. ➤ Identify various types of meditation. <p>Visualise the physiological benefits of Pranayama</p>
				742201 - Educational Statistics	<ul style="list-style-type: none"> ➤ Understand measures of central tendencies and dispersion. ➤ Identify the characteristics of Normal probability curve and its application

					<ul style="list-style-type: none"> ➤ Estimate the concept of Parameter and statistics. ➤ Test specific hypotheses about populations base on their sample data. ➤ Demonstrate competence in the use of statistical packages for analysis of data.
				742202 - Education for Differently Abled Children	<ul style="list-style-type: none"> ➤ Oppressed children –causes and factors related to handicaps- their possible prevention ➤ Learning Disabilities. ➤ Identification of visual impairment. ➤ Meaning of giftedness and creativity. ➤ Children with behavior problems -causes related to the family and society.
				742203 - Educationa l Technolog y	<ul style="list-style-type: none"> ➤ Understand the effective usages of technology in education and technology of education. ➤ Utilize the system approaches and communication modus. ➤ Develop and utilize the instructional design and model of teaching. ➤ Apply audio-visual media to facilitate a variety of academic process. ➤ Understand the new horizons and recent development in the field of Educational technology.
				742204 - Introduction to Teacher Education	<ul style="list-style-type: none"> ➤ Understand the concept, needs of the education systems, objectives and privatization in teacher education. ➤ Comprehend and understand the contemporary teacher education in India. ➤ Acquaint the structure and curriculum of teacher education at different level. ➤ Utilize the instructional techniques. ➤ Apply the innovative practice in teacher education.

				742503 - Early Childhood Care and Education	<ul style="list-style-type: none"> ➤ Understand the need and significance of early childhood care and education. ➤ Understand the quality dimensions i.e, Curriculum, programmes and work force for early child hood care and education. ➤ Develop knowledge for research in early child hood. ➤ Understand the policy perspectives on early child hood and education in India and world. ➤ Understand social and personal development of children 3-6 years.
				742504 - Curriculum and Studies	<ul style="list-style-type: none"> ➤ Define curriculum. ➤ Analyze various approaches to curriculum development ➤ State the major issues to be addressed through curriculum. ➤ Describe various guiding principles for selection and organization of learning experiences. ➤ Component the principles and criteria for developing learning experience.
				742301 - Emerging Trends in Teacher Education	<ul style="list-style-type: none"> ➤ Understand the Needs, Importance, and Types of Teacher Education Institution. ➤ Understand the reforms in Teacher Education. <p>Understand the issues and problems in Teacher Education.</p>
				742302 - Comparative Education	<ul style="list-style-type: none"> ➤ Understand the concept and scope of comparative education. ➤ Appreciate the roles and responsibilities of international organizations in education. ➤ Comprehend the societal educational at international context. ➤ Compare various educational system of India with other countries. ➤ Acquire knowledge about educational problems in India.

				742303 - Assessment in Learning	<ul style="list-style-type: none"> ➤ Construct different types of tests. ➤ Standardize the test for data collection. ➤ Bring the innovative ideas in the examination pattern.
				742304 - ICT in Education	<ul style="list-style-type: none"> ➤ ICT, Professional development of ICT. ➤ Explain the Computer fundamentals: Hardware and Software, Introduction to personal Computer. ➤ Explain the Internet and World Wide Web, Information, Service and function of the Internet and the web. ➤ Explain the ICT application in Education: Word, Data and Image Processing. <p>Explain the Multimedia Packages-usage educational implications of Media and Interactivity website with educational content, Interpersonal communication through the e-Mail, Web forums and Chatting groups</p>
				742505 - Educational Management	<ul style="list-style-type: none"> ➤ Understand teaching as a process of communication and be aware of various resource available for making it effective. ➤ To design and develop an ICT integrated learning resource. ➤ To organize learning with active participation of learners-individually and in groups. ➤ To understand importance of classroom management and management. ➤ To understand ways of preventing problems in managing a classroom and supervision. ➤ To describes approaches to classroom management and communication. <p>Able to prepare and use appropriate instructional material for effective classroom transaction.</p>
				742506 - Environmental Education	<ul style="list-style-type: none"> ➤ Gain awareness and sensitivity to various environmental problems. ➤ Acquire knowledge and attitude towards environment. ➤ Acquire skills for solving environmental

					<p>problems.</p> <ul style="list-style-type: none"> ➤ Understand EE curriculum and evaluation procedures. <p>Participate in activities aimed at resolving environmental problems.</p>
				742401 - Value Education	<ul style="list-style-type: none"> ➤ Understand the need and importance of value education. ➤ Impart value education to students. ➤ Develop moral values through various approaches like Psycho-analytic approach and Cognitive developmental approach.
				742402 - Planning of Economy and Financing in Education	<ul style="list-style-type: none"> ➤ Identify the types of educational policy, need, importance of educational policy. ➤ Comprehend the role of private and public partnership in implementation of educational policy and aware about the issues and strategies in evaluation policy. ➤ The knowledge of monitoring and evaluation agencies of education policies and aware about the linkage between educational policy and national development.
				742508 - Open and Distance Learning	<ul style="list-style-type: none"> ➤ Comprehend the meaning and concept of distance education ➤ Appreciate that the distance education is the need of the hour ➤ Acquire an insight into the Intervention strategies at distance education ➤ Realize the Quality assurance of Distance Education and its New Dimensions. <p>Appreciate the important role of UGC and DEB in Distance education.</p>
1.	M.P.Ed	1. To Produce Professors and Director of Physical Education in	To Produce Good quality and competence Professors Physical Education Directors	Research process in physical education & sports sciences	<ul style="list-style-type: none"> ● Understand some basic concepts of research and its methodologies ● Identify appropriate research topics ● Select and define appropriate research problem and parameters

		Colleges. Physical Education Teachers at National and International Level with good capability.	and Physical Education Teachers		<ul style="list-style-type: none"> • Prepare a project proposal (to undertake a project) • Organize and conduct research (advanced project) in a more appropriate manner • Learn and patches the literature survey aspect of project and prepare the scope and goals for the proposed of project • Write research report and thesis • Write a research proposal (grants)
		2. To Produce competence and skilled Director of Physical education and Physical Education Teachers at Schools, National and International Level.		Physiology of Exercises	<p>This course will provide the skills and knowledge for a range of accreditation standards required by Exercise and Sport Science.</p> <p>Exercise physiology should focus their curriculum on regulation and homeostasis (including adaptation, fatigue, and recovery), aerobic systems, bioenergetics, muscle physiology, and fitness principles.</p> <p>In addition, attention should be paid to performance and technical skills. It is up to exercise physiologists to ensure quality of knowledge and practice. and set it apart from other healthcare providers and fitness professionals.</p> <p>Describe the physiological components of aerobic fitness and adaptations elicited by aerobic training.</p> <p>Describe the physiological components of strength and anaerobic power, and adaptations elicited by strength and anaerobic power training.</p>
		3. To Produce a good quality of Coaches, Fitness Trainers at National and International level to make nation fitness.		Yogic Sciences	<ul style="list-style-type: none"> • Students who complete the program will demonstrate, Knowledge of the teachings and philosophy of the yoga tradition, with diverse yogic perspectives on the structure, states, functions, and conditions of the body and the mind in balance (and out of balance), based on teachings of the Yoga Sutras, the Bhagavad Gita, and other relevant texts. • To understand the concept of yogasanas. • To understand the kriyas • To know the concept of yogic therapy.
		4. To produce a good Researchers in sports Biomechanist.		Test, Measurement and evaluation in Physical Education	<ol style="list-style-type: none"> 1. Explain the Basics of Measurements and Evaluation of Various Test and Measurement Technique. 2. Develop the concepts of Measurements and Evaluation in Physical Education and Sports.
		5. To Produce a elite TamilNadu Police. Reserve			

		Police Force.			<p>3. Develop the ability to construct new Test for various Need related to Physical Education and Sports with Scientific Authenticity.</p> <p>4. To Analyze various Test and Performance related to Physical Education</p>
				Sports Technology	<ul style="list-style-type: none"> • To know the basic of sports technology. • To understand various playing surfaces. • To know the modern technology equipments. • To know the training gadgets and its uses. • To understand the sports building and maintaining concepts.
				Applied statistics in Physical Education & Sports	<ul style="list-style-type: none"> • To be familiar with the fractions and method available for manipulator python list • To understand the used list to represent a collection related data • To be able write program that use list of manage a collection of information • To be able to write program that use list and classic to structure complex desk • To understand the use of python dictionary for storing non sequential collection.
				Sports Biomechanics Kinesiology	<p>Describe physiological concepts related to exercise testing (i.e. maximal aerobic testing, anaerobic testing, body composition analysis.</p> <p>Understand and debate current exercise physiology principles based on historical and technological changes (i.e., anaerobic threshold, body composition analysis)</p> <p>Identify critical elements of the bones and muscles involved in human movement and combine the concepts related to anatomy and physiology with biomechanics</p> <p>Describe and apply anatomical, physiological and biomechanical concepts to exercise testing, health and fitness.</p> <p>Demonstrate knowledge of approved National standards for exercise testing and prescription</p>

				Athletic care and Rehabilitation	<ul style="list-style-type: none"> • To know the sport rehabilitation literature and educational forums • In contrast, sport 14 Evans and Lam rehabilitation provided in the outpatient clinical setting. • To know the basic knowledge of sports injuries. • To assess the massage technique and effects.
				Sports Journalism and Mass Media	<ul style="list-style-type: none"> • To know the basic ethics of journalism • To know about the journalism and sports education • To know about the influence of mass media • To know about the report writing on sports • To understand about methods of editing a sports report
				Sports Management and curriculum Designs in physical Education	<ul style="list-style-type: none"> • To know the concept and sports management. • To understand programme management. • To understand equipment and public relation • To know the concept of curriculum • To know the curriculum sources.
				Scientific Principles of Sports Training	<ul style="list-style-type: none"> • An ability to achieve a given performance repeatedly is referred to as efficiency. • To achieve maximum individual or team efficiency in a selected sports discipline limited by rules. • Reaching maximum efficiency in any activity is not possible over a day. • a process of preparation for a sport performance, put simply. It consists of four parts: Conditioning training (strength training, endurance training, flexibility training) Training of technique (Technical preparation) • Training is extremely important and should form an integral part of all elite athlete's daily routines. Training allows the body to gradually build up strength and endurance, improve skill levels and build motivation, ambition and confidence.
				Sports medicine	<ul style="list-style-type: none"> • Understand the injury to prevent , diagnose and treat injuries in sports person • To treat injuries through modalities and partial rehabilitation • Knowledge of Physical therapy cure through massage and flexion and rotation injuries

					<ul style="list-style-type: none"> To prevent repeated injury while after recovery required partial Rehabilitation and care of athletic injuries
				Health education and sports Nutrition	<p>Emphasize the importance of proper fueling for physical activity, pre- and post-workout</p> <p>Provide real-world effective advice for helping your students to make better food decisions</p> <p>Underscore male-and female-specific issues surrounding the topic of nutrition</p> <p>Clarify the warning signs for eating disorders and disordered eating</p> <p>To provide an overview about dietary supplements, how they are regulated and how to avoid.</p> <p>use of contaminated dietary supplements To highlight the risks to athletes who use performance-enhancing drugs, including anabolic androgenic steroids</p> <p>Reinforce the no-drug policy of interscholastic athletics</p>
				Sports Engineering	<ul style="list-style-type: none"> To know about the designing and sports related instrumentation and measurements. To know about the concepts of internal force, axial force, shear force, bending movements. To create the new sports infrastructure.
				Physical fitness and wellness	<ul style="list-style-type: none"> To cultivate the knowledge about physical fitness. To nurturing the knowledge about the training methods and its managements. To assess and test the level of fitness. To understand about the aerobic and anaerobic training
				Communication Technology	<p>To understand the concept of communication and classroom interaction.</p> <p>To know the fundamental of computers</p> <p>To know MS-Office and E. Learning concepts</p> <p>To know the nature and scope of educational technology</p> <p>To understand the instructional.</p>
				Sports Psychology	<p>Theory and research in social, historical, cultural and developmental foundations of sport psychology</p> <p>Issues and techniques of sport specific psychological assessment and mental skills training for performance</p>

					enhancement and participation satisfaction Clinical and counseling issues with athletes Organizational and systemic aspects of sport consulting Developmental and social issues related to sport participation Biobehavioral bases of sport and exercise (e.g., exercise physiology, motor learning, sports medicine) Specific knowledge of training science and technical requirements of sport and competition, IOC, NCAA rules, etc
				Value and environmental Education	<ul style="list-style-type: none"> To know about the concepts of values and value education To know about the value system To understand the environmental education To understand the rural and urban health To know about the natural resources.
				Education Technology in Physical Education	<ul style="list-style-type: none"> To know about the concept of teaching technology To know about system approach To know about the concept of instructional design To understand the media in physical education To know about the recent trends of research in educational technology.

Under Graduate Programme

S. No.	Program outcomes		Program specific outcomes	Course outcomes	
	Name of the Program	Outcome		Name of the Course	Outcome
SEM I					
1.	B. Sc., (CATERING SCIENCE AND HOTEL	The student after going the above program	The Programme has a specific objective of providing skilled manpower to the global hospitality industry with finishing school concept.	Tamil – I / Adipadai Tamil*	
				English Language Course -I Business	After completing this course the students will gain knowledge about how to write a report correctly and also to produce clear. Hierarchical and logical structures which project the

	MANAGEMENT)	me will be ready to take up any skilled job in the Hospitality industry like Front office Executive, House Keeping Personnel, Assisting Master Chef in Food and Bakery Production, Food and Beverage Management, Tourism Management etc.	The students after undergoing the above programme will be industry ready with basic skills required by the industry with global standards.	English	messages they wish to communicate.
				Basic Food Production	On completion on this course students will gain knowledge in preparation of varieties of south Indian and north Indian dishes. After completing this course the students will enable to gain knowledge about history of cooking, modern developments, raw materials and menu planning etc.
				Basic Food and Beverage service	After completing this course the students will enable to work in star hotel in Food and Beverage Service area. After completion of the course students will be expected to be able to develop general knowledge on the origins and development of food service in hotels, restaurants, and institutions. Describe the economic impact of the F&B industry. Distinguish between commercial and institutional food service facilities. Identify trends likely to affect food service in the coming years. Identify a variety of managerial, production, and service positions that are typical of the food service industry and describe the roles these positions play in providing food service. Describe managerial responsibilities as they relate to food service functions including menu planning, purchasing, storing, preparation, and recipe development.
				House Keeping Management	After completing this course the students will know about basic knowledge of Housekeeping process, its staff, equipments used, PEST

					control method and Fire Prevention. Evaluates the work done at housekeeping department technically. Makes room cleaning control, cleaning of public areas and laundry process etc.
				Hotel French - I	On completing this course the students will gain knowledge about understand, read, write and speak French in second level. After completing this course the students will enable to use terms in the hotel operation and also as it is the most widely used foreign language other than English as far as hospitality industry is concerned.
				Food Sanitation and Hygiene (or) Principles of Management	After completion of this course is students become aware of the food sanitation and hygiene, causes of food poisoning etc. Understand the proper disposal of food waste and garbage, procedures on how to control and exterminate insects and rodents. Recognize safe receiving, storing and handling raw and prepared foods. Conduct a safety and sanitation inspection.
				Fundamentals of Culinary Arts (Practical)	This course enables this student to gain the practical knowledge on culinary arts. Students gain knowledge about round skill set including knife usage and an understanding of the kitchen hierarchy.
				SEM-II Tamil – II/ Adipadai Tamil II	
				English Language Course– II Business Report	After completing this course the students will gain knowledge about how to write a report correctly and also to produce clear. Hierarchical and logical structures which project the messages they wish to communicate.

				writing	
				Basic Food Production - Practical	<p>On completion on this course students will gain knowledge in preparation of varieties of south Indian and north Indian dishes.</p> <p>After completing this course the students will enable to gain knowledge about history of cooking, modern developments, raw materials and menu planning etc.</p>
				Basic Food and Beverage Service - Practical	<p>After completing this course the students will enable to work in star hotel in Food and Beverage Service area.</p> <p>After completion of the course students will be expected to be able to develop general knowledge on the origins and development of food service in hotels, restaurants, and institutions. Describe the economic impact of the F&B industry. Distinguish between commercial and institutional food service facilities. Identify trends likely to affect food service in the coming years. Identify a variety of managerial, production, and service positions that are typical of the food service industry and describe the roles these positions play in providing food service. Describe managerial responsibilities as they relate to food service functions including menu planning, purchasing, storing, preparation, and recipe development.</p>
				Hotel French - II	<p>On completing this course the students will gain knowledge about understand, read, write and speak French in second level.</p> <p>After completing this course the students will enable to use terms in the hotel operation</p>

					and also as it is the most widely used foreign language other than English as far as hospitality industry is concerned.
				Principles of Nutrition (or) Tourism & Travel Management	After completing this course the students will enable to know about various types of nutrition, Effects of malnutrition in body. The students will know the effect of storage, pre-preparation & cooking on nutrients.
				Tourism and Travel Management	On completion of this course students will able to know different tourism places, historical developments, tourism agencies etc. To know about the Emerging trends in tourism industry.
				Environmental studies	After completing this course the students will enable to know about the Environmental Studies prepare students for carriers as leaders understanding and addressing complex environmental issues from a Problem –oriented, interdisciplinary perspective. Students can understand the transactional character of environmental problems and ways of addressing them, including interactions across local to global scales.
SEM III					
				Food and Beverage Management	After completing this course the students will gain knowledge about the selection and procurement process, and other food & beverage management practices. Will know factors that play role in the development of the food and beverage industry. Can explain social and economic reasons in the development of food and beverage industry. Can classify the types of food and beverage operations.
				Quantity of Food	After completing this course the students will know about different Masalas used in cooking, Traditional foods of different states, cooking

				Production	<p>systems, menu, Indenting, Food cost etc.</p> <p>The students will know about Menu planning and scheduling and duty roaster</p>
				Housekeeping - Practical	<p>On completion on this course the students gain knowledge to be as a professional house keeper.</p> <p>To know about the functions of housekeeping and its different sections.</p>
				Front office Operation	<p>After completing this course the students can acquire basic knowledge of Front Office and its operation.</p> <p>Understand the role and function of the Front of Office, Understand the importance of communication and knowledge of guests background, Know the procedures for checking in guests</p>
				Hotel Accounts	<p>After completing the course the students to gain knowledge to know about accounting concepts and techniques.</p> <p>Analyse and apply costing techniques in practical situations.</p> <p>After completing this course the students will enable to gain knowledge Prepare and analyse the cost sheet.</p>
				Computer Application in Hotel Industry	<p>This course will enable the students to gain knowledge of various Computer Application used in Hotel Industries.</p>
				Principles of Tourism	<p>On completion of this course the students can acquire knowledge in Basic of tourism, Tourism Products, Forms of tourism, Tourist transportation and ITO.</p> <p>After completing this course the students will gain knowledge and to evaluate both positive and negative Social/Cultural, Economic and Environmental impacts of tourism.</p>

				Basic Catering Services	<p>After completing this course the students will gain knowledge about the students will have learnt to make various dishes.</p> <p>They will handle meat and fish with care They will have recognized the importance of appetizers.</p> <p>Students will be able prepare various types of soups.</p>
				Extension Activities	
SEM IV					
				Quantity Food Production Practical	<p>On completion of this course the students will be able to prepare various cuisine foods like Chinese Cuisine, Spanish Cuisine, Italian Cuisine, Germanic Cuisine, Foods.</p>
				Beverage Service Practical	<p>On completing this course the students can be able to act as professional sommelier in a Star Hotel.</p> <p>After completing this course the students will gain knowledge about importance of food and beverage operation.</p>
				Front Office Operation Practical	<p>This course will enable the students to gain knowledge to be as a Professional Front Office Staff in a Star Hotel.</p> <p>To gain knowledge about different sections of Front Office and describe their respective duties.</p>
				Bakery & Confectionary	<p>After completing this course the students can occur knowledge in preparing Biscuits, Cookies, Pastries, & Icings.</p> <p>To know about employ safe food handling practices using contemporary guidelines</p> <p>To gain knowledge about different sections of Front Office and describe their respective duties</p>
				Bar Management	<p>After completing this Course the Students gain Knowledge about the basic operation of Bar.</p> <p>The students will know about running your bar smoothly, and keeping it well stocked, safe, and</p>

					profitable
				Hotel Law	After completing this course this course will enable the students to gain knowledge above the various Laws and Acts practiced in Hotel Industry. The students will obtain knowledge about human rights, industry regulatory requirements and employment law.
				Advance Catering Service	This course will enable the students to be familiar in advance catering services. To know about the various modes of transport and its catering services. To know about industrial and institutional catering food service-Benefits of subsidy offered by management.
				Summer Internship Training – I	A report of the project work should be submitted to the Institute within 30 days after completing the project work.
				Value Education	This course will enable the students to be familiar in advance catering services. To know about the various modes of transport and its catering services. To know about industrial and institutional catering food service-Benefits of subsidy offered by management.
SEM V					
				Advanced Food Production	This Course will enable the students to be familiar in Advanced Level Cookery. After completing this course the students will enable to know how to prepare specialty larder dishes and traditional dishes
				Advanced Food and Beverage Service	After completing this course the students will enable to gain knowledge about understanding of managerial functions of food and beverage service. To gain knowledge about acquire professional competence at managerial levels in the particular department.

				Bakery & confectionary Practical	<p>The students can acquire Basic Bakery skills of Bread making, Cake making, Cookies, etc. Preparation of Hot and Cold Desserts.</p> <p>To identify and differentiate the small and large equipment in bakery and confectionary. To Prepare and Present basic pastries and its derivatives</p>
				Accommodation Operation	<p>After completing this course the students will become familiar with the Eco-friendly concept in Housekeeping, HRM in Housekeeping, Training Practices followed etc. To learn about room division, operations and management.</p> <p>To learn graduates are expected to utilize this technical and management skills as well as apply critical thinking skills, ethical standards and problem solving skills within lodging organisation.</p>
				Allied Hospitality Industry	<p>After completing this course the students will acquire knowledge about service providers that includes bars, restaurants and lodging establishments.</p> <p>To know about hotel visitors rely on hospitality staff for many of their travel needs.</p>
				Hotel Marketing	<p>After completing this course the students will gain knowledge in marketing strategy used in hotels and identify the new markets for our products and brands.</p> <p>To accomplish our growth targets within the given time and budget.</p> <p>To communicate our strategic objectives to our target markets effectively.</p>
				Organizational Behaviour	<p>After completing this course the students will enable to know about individual behavior, group dynamics, and Organization dynamics to the students.</p> <p>To apply theories to practical problems in organizations in a critical manner.</p>

				Destination planning and Development (or) Event Management	After completing this course the students can enable to know the destination planning, development, process & analysis and its promotion & publicity. The students can familiarize with the destination branding practices and to know about advanced analysis and research in the field of destination development
SEM VI					
				Advanced Food Production Practical	After completion of this course the students can gain knowledge in various types of events, its arrangements, role of staff in conducting these events etc... To acquire an understanding of the techniques and strategies required to plan successful special events.
				Advanced Food and Beverage Service -Practical	After completion of this course students will enable to prepare various dishes in advance cookery. The students will obtain knowledge about understand and study on the various types of Cuisine.
				Hotel Engineering	After completion of this course the students can gain knowledge in basic engineering. The students will enable to maintain several departments in star hotel
				Revenue Management	The students will be able to plan for Revenue management strategies for a given property. To gain knowledge about apply tools and techniques to make revenue management decisions in a simulated environment
				Entrepreneurial Development	After studying this course, the students will able to identify personal attributes that enable best use of entrepreneurial opportunities. To explore entrepreneurial leadership and management style.
				Human Resource Management	On completion of this course the students can acquire knowledge in various human resource management practices. After completing this course the students will gain

					knowledge about Planning, Acquisition of Human Resources and Training & Rewarding Human Resources in hotel industry.
				Industrial Exposure Training cum Project work-II	A report of the project work should be submitted to the Institute within 30 days after completing the project work
2	B.F.A Painting	Professional Artist Art Teacher Textile Designer Graphics and Animation Designer		308101 TharkalaKavithaiyum, Sirukathaiyum	1.கவிதை இலக்கியங்கள் குறித்து மாணவர்கள் அறிந்து கொள்ளுதல். கவிதைகள் படைப்பதற்கு மாணவர்கள் தங்களை தயார்படுத்திக் கொள்ளுதல் 2.அடிப்படை இலக்கணத்தை அறிந்து கொள்ளுவதால் பிழையின்றி பேசுவதற்கும், எழுதுவதற்கும் பயன்படும் 3.மாணவர்கள் தாங்களே சிறுகதை படைக்கவும் தயார்படுத்திக் கொள்கிறார்கள்
				308102 Poetry, Shakespeare and Communication Skills	Students will increase their reading speed and comprehension of academic articles. Students will develop their ability as critical readers and writers.
				308103 Elements and principals of Art	A broad, applied knowledge of fundamental strategies, and methods of contemporary art-making and painting
				308104 Observational Study	An ability to draw observationally, appropriately applying an understanding of line, value, volume, proportion, and perspective in a unified composition.
				308105 Life Study	A student will demonstrate an ability to draw the human figure observationally, appropriately applying an understanding of basic drawing skills, gesture, proportion, and artistic anatomy.
				308106 Clay Modelling	At the end of the course, the student is able to effectively manipulate the elements and principles of general and relative proportion to create a representational figure and composition. Explore the structural, compositional implications of modeling clays as a sculpting material.

				Have a basic technical understanding of modeling techniques, clays, modeling tools, armatures for figure sculpture.
			4NME1C Communicative English	Developed the four basic skills of language (Listening, Speaking, Reading and Writing) in order to acquire creative and analytical mind that would fit into this new age of technological and global communication.
			308201 EdaikalailakiyamumPuthinamaum	1.சமய இலக்கியங்களை அறிந்து கொள்ளுதல் 2.சிறநிலக்கியங்களைப் பற்றியும், சிறநிலக்கிய வரலாறு குறித்தும் அறிந்து கொள்ளுதல் 3.படைப்பாற்றல் திறனை வளர்த்துக்கொள்ளுதல்.
			308202 Grammatical and Technical English	Understand the importance of written communication in real life situations Comprehend the process of academic writing and writing models like letters, resume, covering letters, notices, agenda, minutes and essays
			308203 Methods and Materials	Knowledge and skills in the use of basic tools, techniques, and processes sufficient to work from concept to finished product, including knowledge of paints and surfaces.
			308204 Still Life Study	A student will demonstrate an ability to draw the human figure observationally, appropriately applying an understanding of basic drawing skills, gesture, proportion, and artistic anatomy.
			308205 Nature Study	Able to demonstrate paper stretching, flat and graded washes, wet into wet, lifting-out, and detailing techniques in combination with basic color principles such as hue, value, temperature, intensity, complementary, analogous, and split-complementary.
			308206 Print Making	This is an inclusive course that offers an expanded study of traditional printmaking processes through experimental print media. Students will participate in a comprehensive range of technical and aesthetic approaches centered in a range of strategies including the art work as multiple, digital and cultural production.
			4BES2 Environmental Studies	create awareness about various pollutions and its impact on Environment

3	B.P.A Bharathan atyam	Stage Performer &Teacher	Students will become the professional s in the performing arts	314101 தமிழ்ச்செம்மொழியும் தமிழர்களின் பன்முகத்திறனும்	மொழி பற்றியும் தமிழ்ச் செம்மொழி மற்றும் உலகச் செம்மொழி பற்றியும் அறிதல் சங்க இலக்கியங்களில் தமிழர்களின் ஆடை, அணிகலன்கள் கலைகள் குறித்த பதிவுகளை அறிதல்
				314102 ENGLISH SKILLS FOR CAREER DEVELOPMNT	Students will increase their reading speed and comprehension of academic articles. Students will develop their ability as critical readers and writers.
				314103 Basic theory of Bharathanatyam-I	Understand the Greatness, salient feature, importance & usages of Bharanatyam
				314104 Practical – Basic Adavu in Bharathanatyam	Understand the origin & development of Bharanatyam from pervades period
				314105 Practical – Hasthas	Learned the basics exercise adios hand Head,foot,stomach, movements
				314106 Practical – Bedhas	insight knowledge about the music
				4NME1C - Communicative English	Developed the four basicskills of language (Listening, Speaking, Reading and Writing) in order to acquire creative and analytical mind that would fit into this new age of technological and global communication.
				314201 இலக்கணமும் படைப்பிலக்கியமும்	அடிப்படை யாப்பு இலக்கணம் குறித்து அறிந்து கொள்ளுதல் கவிதை, சிறுகதை ஆகிய இலக்கிய வடிவங்களின் இலக்கணம், அவற்றின் தோற்றம் குறித்தும் வளர்ச்சி குறித்தும் அறிந்து கொள்ளுதல் இணையத்தில் தமிழ்மொழிப் பயன்பாடு பற்றித் தெரிந்து கொள்ளுதல் கவிதை, சிறுகதை ஆகியவற்றின் படைப்பாற்றல் திறனை வளர்த்தல்

				314202 GRAMMATICAL AND TECHNICAL ENGLISH	Understand the importance of written communication in real life situations Comprehend the process of academic writing and writing models like letters, resume, covering letters, notices, agenda, minutes and essays
				314203 HISTORY OF BHATHANAYAM	Developed the students skills in Basic concepts of Bharathanatyam, Devatha Hasthas and Bhedhas.
				314204 PRACTICAL - NRITTA	Learned the different styles of Bharanatyam & General knowledge of Indian classical music and their tala patterns
				314205 PRACTICAL - NRITYA	Developed the student's skills in the Bharathanatyam items(Urupadi)
				314206 PRACTICAL – HASTHA VINOYOGAS	Developed the students knowledge in the music
				4BES2 Environmental Studies	create awareness about various pollutions and its impact on Environment
1 2	B.P.A Music(Vocal)	Graduates To Work In Arts, Culture And Heritage Roles And Become Professionals In Cultural Industries. The Programme Is Also An Excellent Foundation Research.		315101 தமிழ்ச்சேம்மோழியம் தமிழர்குளின் புன்முகத்திறனம்	மொழி பற்றியும் தமிழ்ச் செம்மொழி மற்றும் உலகச் செம்மொழி பற்றியும் அறிதல் சங்க இலக்கியங்களில் தமிழர்களின் ஆடை, அணிகலன்கள் கலைகள் குறித்த பதிவுகளை அறிதல்

				315102 English Skills For Career Developmnt	Students will increase their reading speed and comprehension of academic articles. Students will develop their ability as critical readers and writers.
				315103 Basic Theory Of Music	Students will demonstrate the understanding and use of public performance as a means for engaging communities, creating cultural awareness, and providing ethical leadership.
				315104 Beginner's Exercise-I (Practical)	Students will be able to create, analyze and synthesize music as a means of supporting developing careers in music teaching and performance.
				315105 Beginner's Exercise-II (Practical)	Demonstrate competence in musicianship to include:aural skills and knowledge and application of music theory
				315106 Foundation Course In Music (Practical)	Students will be able to demonstrate teaching skills for individual studio and group settings for teaching and audience education purpose.
				315201 இலக்கணமும் படைப்பிலக்கியமும்	அடிப்படை யாப்பு இலக்கணம் குறித்து அறிந்து கொள்ளுதல் கவிதை, சிறுகதை ஆகிய இலக்கிய வடிவங்களின் இலக்கணம், அவற்றின் தோற்றம் குறித்தும் வளர்ச்சி குறித்தும் அறிந்து கொள்ளுதல் இணையத்தில் தமிழ்மொழிப் பயன்பாடு பற்றித் தெரிந்து கொள்ளுதல் கவிதை, சிறுகதை ஆகியவற்றின் படைப்பாற்றல் திறனை வளர்த்தல்
				315202 Grammatical and Technical English	Understand the importance of written communication in real life situations Comprehend the process of academic writing and writing models like letters, resume, covering letters, notices, agenda, minutes and essays
				315203 History Of Music	Music students will be able to perform as soloists,ensemble members and chamber musicians at appropriate levels for entering graduate music study.
				315204 Foundation Course-II Practical	Students will be able to create, analyze and synthesize music as a means of supporting developing careers in music teaching and performance.

				315205 Music Compositions-I (Practical)	Demonstrate competence in musicianship to include: aural skills and knowledge and application of music theory
				315206 Devotional Music(Practical)	Demonstrate competence in musicianship to include:rural skills and knowledge and application of music theory
1	B.Voc Software Developm ent	<ul style="list-style-type: none"> • Junio r Softw are Devel oper • Web Devel oper 		5BV1T1 - தமிழ்ச்செம்மொழியும்தமிழர்களி ன்பன்முகத்திறனும்	மொழிபற்றியும்தமிழ்செம்மொழிமற்றும்உ லகச்செம்மொழிபற்றிஅறிதல்.
				5BV1E1 - English Skills For Career Development	Developed the study skills and communication skills in formal and informal situations
				4NME1C - Communicative English	Developed the four basic skills of language (Listening, Speaking, Reading and Writing) in order to acquire creative and analytical mind that would fit into this new age of technological and global communication.
				5BV1G1 - Life Coping Skills – Basic	Understand the life skills, its concept, process and practices.
				5SD1C1 - Fundamentals of Programming And C	Learned programming skills using C language and to make the students learning to use the specialtiesof ‘C’ language for programming
				5SD1P1 - Practical– C Programming –Lab	Understand the basic concept of C Programming, and its different modules that include conditional, looping expressions, Arrays, Strings and Functions.
				5SD1P2 - Practical - Office Automation –Lab	Developed the learner’s skills to effective usage ofOffice Automation package
				5SD1A1 - Principles of Information And Communication Technology	Got insight knowledge about the Internet and its facilities, services, tools and Multimedia.

			5BV2T1 - இலக்கணமும்படைப்பிலக்கியமும்	அடிப்படைஇலக்கணத்தின்வகைகளைபற்றி அறிதல்
			5BV2E1 - Grammatical And Technical English	Developed the student's skills in Technical English Communicative skills such as, writing, speaking and presentation.
			4BES2 - Environmental Studies	create awareness about various pollutions and its impact on Environment
			5BV2G1 - Life Coping Skills – Advanced	Impart Life Coping skills to the learners to face the challenges of the new millennium, ruled by globalization and market forces.
			5SD2C1 - Web Technology	Understand the various steps in designing a creative and dynamic website using html, JavaScript and XML.
			5SD2P1 - Web Designing –Lab	Learned the languages for the web such as, HTML, JavaScript, Photoshop, Flash and Dreamweaver
			5SD2A1 - Mathematics - Optimization Techniques	Enabled the students to effectively solve the Resource Management problems using Optimization techniques.
			5SD2P2 - DTP And Multimedia Lab	Identified components of desktop publishing, such as text, graphics, and different page layout
			5BV3G1 - Advanced Communicative English	Studied the different techniques used to exhibit the effective Communicative skills and presentation skills
			5BV3G2 - Professional Etiquettes	Impart appropriate workplace etiquettes, dress code and use of facilities in business environment.

				4SBS3A1 - Competitive Examination Skills	Build a sense of awareness among students through proper guidance about various Competitive Examinations in order to motivate students for prospective career in Government and Corporate Sector.
				4NME3C - Effective Employability Skills	Trained the students to work independently with minimum supervision
				4BEA3 - Extension Activities	Create awareness among rural people that agriculture and other area based works are profitable professions.
				5SD3C1 - Operating Systems	Known fundamental aspects of various Process, Memory management, GUI and Security techniques of Operating System along with an introduction of UNIX.
				5SD3P1 - Practical – Data Structure And Algorithms – Lab	Given fundamental knowledge on data structures and exposure to development of algorithms related to data structures.
				5SD3P2 - Practical – Programming With C++ - Lab	Learned the fundamentals of object-oriented design and implementation in C++.
				5SD3A1 - Linux And Open Office – Lab	Learned to install Linux OS and OpenOffice.org 3.x on Microsoft Windows and Linux platforms
				5SD4G1 - Practical – Pc Assembling And Troubleshooting	Learned to diagnose and troubleshoot the microcomputer systems Hardware and Software, and other peripheral equipment issues.
				5BV4G2 - Interview Techniques And Interpersonal Communications	Learned about Social skills and Conflict skills to become a successful person

				4SBS4B1 - Accounting Skills	Analyzed the business problem by incorporating diverse perspective of accounting techniques and to develop competent decision skills in the areas of accounting
				4BVE4 - Value Education	Learned and practice of facts which have eternal value is what is contemplated by value education. It can also be the process by which a good citizen is molded out of a human being.
				4BMY4 - Manavalakalai Yoga	Enabled the students to attain physical strengths, higher level of consciousness, strong emotional stability and moral values through various Asanas.
				4BWS4 - Introduction To Gender Studies	Gained knowledge on Gender, Sex, Gender roles, determinisms, identity, ideology and stereotypes in order to get awareness and importance of Gender Equality.
				5SD4C1 - Computer Networks Administration	Learned about Computer Communication Network protocols, reference models, security concepts and to familiar about Network Management principles
				5SD4P1 - Practical – RDBMS – Lab	Learned programming with PL/SQL including manipulation of Cursors, Packages and Triggers, Functions & Procedure
				5SD4P2 - Practical – XML – Lab	Acquired the skills for creating XML documents, DTD, Style sheets using CSS and XSL for real-time requirements.
				5SD4A1 - Practical - Visual Basic -Lab	Introduced computer programming using the Visual BASIC programming language with object-oriented programming principles.
				5SD4P3 - Domain Study	Enabled the students to relate their theoretical knowledge with the application domain of the Software Development industry.
				4SBS5A3 - Entrepreneurial Development Skills	Learned the concepts, principles of Entrepreneurship and to develop Entrepreneurial interest and qualities

				4SBS5A5 - Marketing And Sales Management	Learned the elements of sales force to be an effective component of an organization's overall marketing strategy.
				5SD5G1 - MIS and EDI	Given an understanding of the importance of Information Systems, how it relates to managerial people and end-users
				5BV5G2 - Quantitative Aptitude	Learned to critically evaluate and solve various real life problems using mathematical techniques and to know how to present data graphically using histogram, frequency polygon and pie charts.
				5SD5C1 - Programming With Java	Known and familiar with Object-Oriented concepts and the power of Java language in Internet programming.
				5SD5E1 - Software Engineering	Introduced the basic concepts of Software Engineering and the various phases in Software Development in order to make the students to become a Software developer with conventional SDLC methodologies
				5SD5E2 - Object Oriented Software Engineering	Known the basic concepts and principles of Object Oriented Software Engineering and the role of OOSE in Software Development process so as to produce Software developers in Object Oriented programming environments
				5SD5P1 - Practical – Microprocessor – Lab	Enabled the students to learn basics and programming concepts of Intel 8085 and 8086
				5SD5P2 - Practical – Programming With Java – Lab	Developed Java programs to solve well specified problems and to able to debug and test Java programs
				5SD5P3 - Practical – Software Design - Lab	Enabled the students to use the Software Testing tools in an effective manner so as to debug a code themselves
				4SBS6B3 - Basic Internet And Office Automation Lab	Trained students with basic computer operations, operating systems, software utilities, data processing & office

					automation skills.
				4SBS6B4 - Fruit, Vegetable Preservation Skills	Known the science, principles and techniques involved in fruits and vegetables preservation techniques
				4SBS6B5 - Equipment Handling Skills For Events	Learned about the working, handling and troubleshooting Skills on various electrical and electronic gadgets
				5SD6G1 - Corporate Grooming And Finishing Skills	Enhanced and sharpen the required skills and proper business etiquettes among the students to build good corporate relationship with the customers and their colleagues
				5SD6G2 - Comprehensive Study	Known the knowledge of students in various fields of Computer Science / Software Development in order to prepare them to face their career interviews.
				5SD6E1 - Software Project Management	Developed the skills related to Project Planning, Software requirement analysis models, Project Execution approach and Risk Management strategies in order to enrich the students to become an efficient Software Project managers
				5SD6E2 - Software Quality Assurance	Known the importance of standards in the quality management process and their impact on the final product to become a Software Quality checker
				5SD6P1 - Practical – PHP Programming – Lab	Known and impart the programming principles, language structures of PHP
				5SD6E3 - Distributed Programming – Lab	Known the underlying concepts of distributed programming techniques in developing a Software product using distributed environment.
				5SD6E4 - Presentation Technologies – Lab	Known the knowledge about Presentation Technologies such as, JSP and ASP.NET environment

				5SD6I1 - Industrial Internship With Project – III	Got employment in industry, government, or entrepreneurial endeavors to demonstrate professional advancements through significant theoretical and practical knowledge and expanded leadership responsibilities.
3	B.Voc. Fashion Technology	<ul style="list-style-type: none"> • Fashion Designer • Boutique manager • Export manager 		தமிழ்ச்செம்மொழியும்தமிழர்களின்பன்முகத்திறனும்	மொழிபற்றியும்தமிழ்செம்மொழிமற்றும்உலகச்செம்மொழிபற்றிஅறிதல்.
				English Skills for Career Development	Studying communication skills in formal and informal situations and get insight knowledge about english grammar rules along with the importance of parts of Speech, verbs and tenses
				Communicative English	Developing the basic skills of language like listening, speaking, reading , writing and communicate effectively in English both in spoken and written mode.
				Life Coping Skills – Basic	Understanding the concept, process of life skills and develop competence in application of life skills for effective learning and planning for career.
				Textile Science	Acquire knowledge about the differentfibers, yarn and fabrication process.

			Sewing Machine Techniques	Able to understand functions and utilization of specialized machines used in Garment industry.
			Fashion Designing Lab	Studying the elements & principles of design and its application in designing.
			Sewing Techniques Lab	Get insight knowledge about the basic hand stitches and sample preparation of seams, fullness, neckline finishes.
			இலக்கணமும்படைப்பிலக்கியமும்	அடிப்படைஇலக்கணத்தின்வகைகளைபற்றி அறிதல்
			Grammatical and Technical English	Developing skills in Technical English Communicative skills such as, writing, speaking and presentation.
			Environmental Studies	Imparting major concepts in Environmental sciences and to demonstrate the in-depth understanding about the living environment
			Life coping Skills – Advanced	Enabling the students to become a good team player so as to make them to acquire problem solving skills, creative and critical thinking abilities to develop decisions, and building healthy relationships with their team-mates and society
			CAD Lab-1	Understand the basic principles and application in computer and acquire skills in Corel draw and Photoshop

			Pattern Making and Grading Lab	Studying the pattern and learnt about the pattern preparation for kids, women's and men's wear
			Principles of Pattern Making and Grading	Understand the concepts, terminologies and methods of pattern making, grading and pattern fitting.
			Introduction to Fashion Technology	Studying the elements and principles of design and apply it with garment design and understand the figure irregularities its remedies
			Advanced Communicative English	Gain knowledge about different techniques used to exhibit the effective Communicative skills and presentation skills
			Professional Etiquettes	Impart knowledge in appropriate workplace etiquettes, dress code and use of facilities in business environment.
			Competitive Examination Skills	Build a sense of awareness among students through proper guidance about various Competitive Examinations in order to motivate students for prospective career in Government and Corporate Sector.
			Effective Employability Skills	Imparting basic requirements of readiness to face the various types Interviews in order to improve Employability opportunities

			Extension activities	The students are able to learn and understand the culture, living environment, values as well as the problems of rural people and to bring desirable changes in knowledge, skill and attitude of rural people by the students.
			Fashion and Apparel Merchandising	Understand the basic concepts of fashion merchandising, the roles and responsibilities of merchandiser and export promotion council roles in merchandising.
			CAD Lab -2	Study the software applications and learn Corel Draw and Photoshop and develop the textile designs by using the software.
			Garment Construction Lab - Kids Wear	The students are able to design and construct the garment for different age group of kids.
			Fashion Retailing and Visual Merchandising	Know about the retailing, store plan, importance of marketing strategies and acquire knowledge about visual merchandising and planning to set up the display in the apparel showroom.
			Fashion and Apparel Accessories Lab	Understand the different accessories availability in fashion market and design, construction of fashion accessories.

			Interview Techniques and Interpersonal Communications	Understand the purpose behind the interview process and preparation techniques for the carrier interviews and learn about Social skills and Conflict skills to become a successful person
			Accounting Skills	Get an knowledge to analyze the business problem by incorporating diverse perspective of accounting techniques and to develop competent decision skills in the areas of accounting
			Value Education	Learnt about the practice of facts which have eternal value is what is contemplated by value education and evolution of a good human being is when he realise that his conscience shows to him the rightness of his action.
			Manavalakalai Yoga	Understand the importance of yoga and its relationship with physical and mental health.
			Introduction to Gender Studies	Gain knowledge on Gender, Sex, Gender roles, determinisms, identity, ideology and stereotypes in order to get awareness and importance of Gender Equality, familiar about Women Development Policies, Programmes and Women empowerment schemes.
			Apparel Costing and Export Documentation	Got an idea about the apparel industry costing methods and get insight knowledge about marketing, apparel trade and polices of exports.
			Garment Construction Lab - Women's Wear	The students are able to design and construct the garment for different age group of women.
			Textile Processing Lab	Understand the preparatory process of textile materials and learn about the dyeing and printing methods of different textile fabric materials
			Textile processing	Gain knowledge in fabric preparatory process and know the different types of dyeing and printing methods, technological advancement in the textile processing.
			Domain Study	The students are able to understand about real time working environment, experience and to gain the knowledge through hands on observation and job execution in the Industry.

			Entrepreneurial Development skills	Impart the process and procedure involved in setting up of a small enterprise and to acquire the necessary managerial skills to run a small-scale industry.
			Marketing and Sales Management	Acquire analytical skills for solving marketing related problems and challenges to familiar with the strategic marketing management process
			Community Health and Nutrition	Gain knowledge about the importance of nutrition and its relation with community. Got an idea about the national and international organization in community nutrition.
			Quantitative Aptitude	Got knowledge in critically evaluate and solve various real life problems using mathematical techniques and to know how to present data graphically using histogram, frequency polygon and pie charts.
			Garment Quality Testing and Assurance	Knew the importance of quality parameters followed in garment industry and understand fabric inspection system, AQL standards and QC Tools.
			Wardrobe Planning and Clothing Care	Got an idea about the laundering agents, equipment used in clothing care and understand the concepts of wardrobe planning and its importance clothing choice.
			Indian Traditional Textiles and Costumes	Learnt out the origin of costumes and study the ancient to modern time costume and had an idea about the Indian traditional textiles and embroideries.
			Garment Construction Lab – Men’s Wear	Able to design and stitch the Men’s garments.
			Garment construction Lab – knit wear	Able to design and construct the knitted garments for kids and women’s wear.
			CAD Lab-3	Learnt about the CAD software tools and pattern development of different garment patternmaking and grading of Patterns.
			Textile Testing – Lab	Gain knowledge about fiber yarn fabric testing and understand the relationship of quality parameters with fabric end use.
			Basic Internet and Office Automation Lab	Equipped students with basic computer operations, operating systems, software utilities, data processing & office automation skills.

				Fruit, Vegetable Preservation Skills	Understand the science, principles and techniques involved in fruits and vegetables preservation techniques.
				Equipment Handling Skills for Events	Imparting knowledge of the characteristics in various types of electrical and electronic equipments used in events and learn about the working, handling and troubleshooting skills on various electrical and electronic gadgets
				Corporate Grooming and Finishing Skills	Enhancement and sharpen the required skills and proper business etiquettes among the students to build good corporate relationship with the customers and their colleagues
				Comprehensive study	Refresh the knowledge of students in various fields of Fashion Technology, Textile and Apparels in order to prepare them to face their career interviews
				Fashion Photography – Lab	Developed skills associated with fashion Photography techniques
				Home Textiles – Lab	Able to design and construct the household furnishing & kitchen wear items.
				Fashion Portfolio Lab	Get insight knowledge about portfolio concepts and its importance in fashion designer career.
				Fashion Draping – Lab	Able to understand the concepts of draping and design development along with stitching fashionable garments
				Industrial Internship With Project	Able to get employment in industry, government, or entrepreneurial endeavors to demonstrate professional advancements through significant theoretical and practical knowledge
2	B.Ed.,	1.Act as an agent of social change while understanding and appreciating the inter	1.1 Understood the basic concepts and ideas in education. 2.Empower	Course Code: 711101 CHILDHOODS AND GROWING UP	At the end of this course the student – teacher shall be able to <ul style="list-style-type: none"> ➤ Apply the knowledge of psychology to classroom situations ➤ Internalize the growth and development from childhood to adolescents ➤ Apply the cognitive and psychological theories for their psycho social development ➤ Develop the memory level and adapt

	relationship between our healthy cultural heritage and its impact on education.	ed in subject content and Pedagogy		techniques to promote better memory for a child Utilize the principles of motivational theories for achieving external and internal motivation of one's own self and others
	2. Provide leadership to the community while utilizing the resources of the local community for the proper development of the school, the student and the community.	3. Developed an understanding of contemporary Indian Society.	Course code: 711102 CONTEMPORARY INDIA AND EDUCATION	At the end of the course ,the student –teacher will be able to 1.Understand the relationship between education and philosophy and different Indian and Western Philosophers. 2.understand the concept and aims of Education 3.develop an understanding of sociology and Education 4.make them understand the challenges of Education in India acquire the importance of teacher education
	3. Facilitate the learning process in the students by means of available resources and organizing educational	4.Comprehend the nature of learner and the learning process	Course Code: 711103 CPS 1 - LANGUAGE ACROSS THE CURRICULUM, UNDERSTANDING DISCIPLINES AND SUBJECTS	Explain about nature, function, Theories of language learning and role of language across the curriculum Describe Knowledge about importance and use of first, second language and multi languages system and its significance on culture in developing language skills. Get knowledge and understand the nature of communication process in the classroom, Relationship between language mastery and subject mastery Give explanation about the nature of reading comprehension in different content areas Develop attitude of being a good language teacher enhancing pedagogical skills
		5. Developed the skill in both microteaching and microteaching.		
		6. Apply various innovative methods, strategies		

		<p>activities and programmes with special care for learners of the specific needs.</p> <p>4.Show respect, love for the individuality of the child and to be just and impartial in his/her dealing with children</p> <p>5. Organize various activities of the school for the all-round development of the students by using media and appropriate instructional methods and technologies.</p> <p>6. Inspire and</p>	<p>and practices based on the knowledge gained.</p> <p>7. appropriate utilization of ICT in all spheres of education.</p> <p>8. Acquainted with the different modes of assessment and their significance.</p>	<p>Course Code: 711104 பொதுத்தமிழ் ஆசிரியமாணவர்கள்,பயிற்சிமுடிவில் கீழ்க்கண்டதிறன்களைப் பெறுகிறார்கள்.</p>	<ul style="list-style-type: none"> ➤ தாய்மொழிகற்றலின் நோக்கங்களை அறிந்துகொள்கிறார்கள். ➤ தமிழ்மொழியின் பல்வேறுபயிற்றுமுறைகளை அறிந்துகொள்கிறார்கள். ➤ நுண்ணிலைக்கற்பித்தல் திறன்களில் பயிற்சிபெறுகிறார்கள்மற்றும் பாடத்திட்டம் அமைத்தலில் அமைந்துள்ளகோட்பாடுகளை அறிந்துகொள்கிறார்கள் ➤ மொழிக்கற்பித்தலில் துணைக்கருவிகளின் பயன்பாட்டினை அறிந்துகொள்கிறார்கள் வினாத்தாள் அமைத்தலில் உள்ளபல்வேறுதிறன்களைவளர்த்துக்கொள்கிறார்கள்
				<p>Course Code: 711105 BCPS-2 - PEDAGOGY OF GENERAL ENGLISH-I</p>	<ul style="list-style-type: none"> ➤ Know the importance of English language; Aims, Objectives and Principles of Teaching English. ➤ Understand the strategies for Teaching English Language. ➤ Know the teaching methods and approaches. ➤ Acquire the Knowledge of teaching and lesson planning. ➤ Prepare and use appropriate teaching aids to make teaching more effective. ➤ Acquire knowledge of the methodology of the teaching English. <p>Develop own criteria and judgements for effective language teaching.</p>
				<p>Course Code: 711106 rpwg;Gj; jkpo; Mrphpakhzth;fs;>gapw;rpKbtpy; fPo;f;fz;ljpwd;fisg; ngWfpwhh;fs;.</p>	<ul style="list-style-type: none"> ➤ மொழியின் தோற்றமும் வளர்ச்சியும் பற்றி அறிந்துகொள்கிறார்கள். ➤ தமிழ்மொழியின் ஒலி அமைப்புமுறையை அறிந்துகொள்கிறார்கள். ➤ மொழிபெயர்ப்பு மொழிவளர்ச்சிக்குத் துணையாதலையுணர்ந்துகொள்கிறார்கள் ➤ சமூகப் பின்னணியில் மொழியைவளர்த்துக் கொள்கிறார்கள். <p>தமிழ் மொழியின் வளர்ச்சிநிலையினை அறிந்துகொள்கிறார்கள்.</p>

	<p>professionally help the parents for the care and guidance of their wards. 7. Pressure proper balance of his/her life as a person of character, uphold the values of professional commitments and professional ethics and be an example to others with his/her intellectual honesty and moral integrity as well as loyalty to the institution to which he/she belongs. 8. Strive</p>		<p>Course Code: 711107 CPS-3 - PEDAGOGY OF SPECIAL ENGLISH-I</p>	<ul style="list-style-type: none"> ➤ Enrich English Speech Sound in English language. ➤ Acquire Good Pronunciation and Fluency of Speech ➤ Apply the Knowledge of Skills in Suprasegmental Features of Knowledge. ➤ Apply the steps in curriculum development and make an attempt to develop an English curriculum. ➤ Develop the habit of reading journals, writing articles to magazines and journals. ➤ Use the evaluation tools effectively according to the nature of the content in English Language. <p>Apply the principles in preparing scholastic achievement test and also develop the skill in using the pedagogy in dealing the content</p>
			<p>Course Code: 711108 PEDAGOGY OF MATHEMATICS - I</p>	<p>At the end of this course the student – teacher shall be able to</p> <ul style="list-style-type: none"> ➤ Appreciate the nature and scope of Mathematics and also recognize the values of teaching mathematics. ➤ Appreciate the interdisciplinary contributions of Mathematics and also recognize the Correlation of Mathematics with other subjects. ➤ Acquire the skill of writing objectives and specifications of any topic in Mathematics and acquire various skills in the teaching of Mathematics. ➤ Develop the skill of identifying suitable method to teach a particular topic in Mathematics and also recognize the need and importance of teaching aids. ➤ Appreciate the use of various technologies in teaching mathematics and develop the skill of integrating ICT in teaching of mathematics.

	<p>continuously to enrich his/her personality by the lifelong process of learning through study and research; uphold his/her teaching as sacred and</p>		<p>Course Code: 711109 PEDAGOGY OF PHYSICALSCIENCE I</p>	<ul style="list-style-type: none"> ➤ Appreciate the interdisciplinary contributions of Physical Sciences and also recognize the nature and structure of Physical science. ➤ Acquire the skills in the teaching of Physical Science and to develop the skills in them through classroom teaching. ➤ Acquire the skill of identification and writing of objectives and specifications of any topic in science. ➤ Develop the skill in identifying the topics which can be taught through various methods and also recognize the need and importance of teaching aids. <p>Develop the skill in teaching of Physical Science by integrating ICT and other modern techno pedagogical skills.</p>
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		inviolable.	<p>Course Code: 711110 PEDAGOGY OF BIOLOGICAL SCIENCE - I</p>	<ul style="list-style-type: none"> ➤ Appreciate the interdisciplinary contributions of biological Sciences and also recognize the nature and structure of biological science. ➤ Acquire the skills in the teaching of biological Science and develop the skills in them through classroom teaching. ➤ Acquire the skill of identification and writing of objectives and specifications of any topic in science. ➤ Develop the skill of selecting appropriate methods for teaching different topics in science and also recognize the need and importance of teaching aids. <p>Develop the skill in teaching of biological Science by integrating ICT and other modern techno pedagogical skills.'</p>
			<p>Course Code: 711111 PEDAGOGY OF SOCIAL STUDIES - I</p>	<ul style="list-style-type: none"> ➤ Appreciate the interdisciplinary contributions of social studies and also recognize the nature and structure of social studies. ➤ Acquire the skills in the teaching of social

				<p>studies and to develop the skills in them through classroom teaching.</p> <ul style="list-style-type: none"> ➤ Acquire the skill of identification and writing of objectives and specifications of any topic in social. ➤ Develop the skill in identifying the topics which can be taught through various methods and also recognize the need and importance of teaching aids. <p>Develop the skill in teaching of social studies by integrating ICT and other modern techno pedagogical skills.</p>
			<p>Course code:711112 Pedagogy of Commerce– I</p>	<p>By the end of the course, the student teacher will be able to</p> <ul style="list-style-type: none"> ➤ Explain the basic concepts of commerce ➤ Describe the development of commerce education ➤ Demonstrates the different teaching skills, prepares lesson plans and teaching materials. ➤ Select and use the appropriate teaching method suitable for the teaching of commerce content <p>Select and use the appropriate teaching aid for the teaching of commerce</p>
			<p>Course Code: 711201 LEARNING AND TEACHING</p>	<ul style="list-style-type: none"> ➤ Develop the Learning abilities ➤ Utilize the Learning approaches in day today life ➤ Apply the teaching models on their classroom teaching ➤ Enrich the role as a teacher <p>Enhance the teaching competencies</p>
			<p>Course Code: 711202 PE4 : GENDER, SCHOOL AND SOCIETY</p>	<ul style="list-style-type: none"> ➤ Explain about Gender Sensitivity ,Gender Equity, Gender Stereotyping, Gender Mainstreaming ➤ Describe the gender issues like Sexual abuse, Sexual Harassment and Perception of safety at school and home

				<ul style="list-style-type: none"> ➤ Get the knowledge about constitutional provisions of human rights and women rights ➤ Describe about Livelihoods of Rural Women, Environmental Degradation and Livelihoods of Tribal Women <p>Explain about International and National Initiatives for Women's development</p>
			<p>Course Code: 711203 பொதுத்தமிழ் ஆசிரியமாணவர்கள்,பயிற்சிமுடிவில் கீழ்க்கண்டதிறன்களைப் பெறுகிறார்கள்.</p>	<ul style="list-style-type: none"> ➤ அடிப்படைத்திறன்களைவளர்ப்பதின் இன்றியமையாமையைஅறிந்துகொள்கிறார்கள். ➤ செய்யுள்,உரைநடைபாடங்களைக் கற்பித்தலின் வேறுபாடுகளைஅறிந்துகொள்கிறார்கள். ➤ மொழிப்பாட நூலின் பண்புகளைஅறிந்துகொள்கிறார்கள். ➤ சிறந்தமொழிப்பாடஆசிரியர்களுக்கானபண்புகளையும்நூலகத்தின் பயன்களையும்அறிந்துகொள்கிறார்கள். <p>தகவல் நுட்பவியல் வழியாகதமிழ் கற்பித்தலைஅறிந்துகொள்கிறார்கள்.</p>
			<p>Course Code: 711204 CPS4: PEDAGOGY OF GENERAL ENGLISH – II</p>	<ul style="list-style-type: none"> ➤ Understand the concept of curriculum being set up in the English language and the methods involved in it. ➤ Develop proficiency in communication skills. ➤ Acquire teaching skills of prose and poetry. ➤ Know method of teaching grammar. ➤ Acquire knowledge of the current trends in teaching of English globally. ➤ Develop the ability of structure. ➤ Enrich the historical knowledge of in India. <p>Enhance the ability of preparing and utilizing instructional resources.</p>

				<p>Course Code: 711205 சிறப்புத் தமிழ்</p>	<ul style="list-style-type: none"> ➤ கலைத்திட்டதின் கோட்பாடுகளை அறிந்துகொள்கிறார்கள். ➤ மொழிக்கல்வியில் மாணவர் செய்யும் பிழைகளை அறிந்துகொள்கிறார்கள். ➤ பள்ளியிதழ்கள் மற்றும் இலக்கியக் கழகங்களின் இன்றியமையாமையை அறிந்துகொள்கிறார்கள். ➤ முத்தமிழின் பண்புகளையும் வளர்ச்சிநிலைகளையும் அறிந்துகொள்கிறார்கள். <p>இலக்கியத் திறனாய்வுபற்றி அறிந்துகொள்கிறார்கள்.</p>
				<p>Course Code: 711206 PEDAGOGY OF SPECIAL ENGLISH – II</p>	<ul style="list-style-type: none"> ➤ Know the nature of Teaching of English. ➤ Use multimedia and technology in language teaching. ➤ Acquire knowledge of language learning resources. ➤ Develop understand the role of textbooks and carryout content analysis. ➤ Establish English Language laboratory. ➤ Use the evaluation tools effectively according to the nature of the content in English language. <p>Apply the principles in preparing scholastic achievement test and also develop the skill in using the pedagogy in dealing the content.</p>
				<p>Course Code: 711207 PEDAGOGY OF MATHEMATICS – II</p>	<p>At the end of this course the student – teacher shall be able to</p> <ul style="list-style-type: none"> ➤ Recognize the principles of curriculum construction and curriculum organization in Mathematics and critically evaluate the mathematics syllabus at the secondary stage. ➤ Appreciate the uses of different equipments and resources in teaching mathematics and appraise the importance of Mathematics Library, Mathematics Textbook, Mathematics

				<p>club and Mathematics laboratory in teaching mathematics.</p> <ul style="list-style-type: none"> ➤ Identify the requisite qualities of a good mathematics teacher and develop the essential Skills for a Mathematics Teacher. ➤ Gain insight on individual differences in learning Mathematics and understand the role of a mathematics teacher in remedying the differentials in the classroom. ➤ Realize the importance of evaluation in teaching mathematics and understand the techniques of evaluating and acquire the statistical skills to interpret the test results.
			<p>Course Code: 711208 PEDAGOGY OF PHYSICALSCIENCE II</p>	<ul style="list-style-type: none"> ➤ Apply the steps in curriculum development and make an attempt to develop a science curriculum. ➤ Develop the habit of reading physical science journals, writing articles to magazines and journals. ➤ Establish science / physical science laboratory. ➤ Use the evaluation tools effectively according to the nature of the content in physical science. <p>Apply the principles in preparing scholastic achievement test and also develop the skill in using the pedagogy in dealing the content</p>
			<p>Course Code: 711209 PEDAGOGY OF BIOLOGICAL SCIENCE - II</p>	<ul style="list-style-type: none"> ➤ Apply the steps in curriculum development and make an attempt to develop a science curriculum. ➤ Develop the habit of reading biological science journals, writing articles to magazines and journals. ➤ Establish science / biological science laboratory.

				<ul style="list-style-type: none"> ➤ Use the evaluation tools effectively according to the nature of the content in biological science. <p>Apply the principles in preparing scholastic achievement test and also develop the skill in using the pedagogy in dealing the content.</p>
			Course Code: 711210 PEDAGOGY OF SOCIAL STUDIES - II	<ol style="list-style-type: none"> 1. Develop the different curricular activities pertinent to the teaching of social studies. 2. To aware and get the different types of materials in social studies. 3. Get knowledge for different human relationships. 4. To generate a broad perspective of Democracy and Citizenship. <p>Acquaints the students to update current affairs.</p>
			Course code: 711211 Pedagogy of Commerce – II	<p>By the end of the course, the student teacher will be able to</p> <ol style="list-style-type: none"> 1. Explain about the curriculum, learning resources, evaluation, exceptional children 2. Describes the principles of curriculum construction, usage of learning resources, types of teachers, need of professional development of teachers and different disabilities 3. Demonstrates the ability in organization of content, field trips, solving classroom problems and evaluation techniques, statistics and interpretation of results. 4. Resolve the achievements of students through remedial strategies <p>Ability to have professional development</p>
			Course Code: 711301 READING AND REFLECTION ON TEXT, DRAMA AND ART IN EDUCATION	<p>At the end of this course the student – teacher shall be able to</p> <ul style="list-style-type: none"> ➤ Appreciate the interdisciplinary contributions of biological Sciences and also recognize the nature and structure of biological science. ➤ Acquire the skills in the teaching of biological

				<p>Science and to develop the skills in them through classroom teaching.</p> <ul style="list-style-type: none"> ➤ Acquire the skill of identification and writing of objectives and specifications of any topic in science. ➤ Develop the skill in identifying the topics which can be taught through various methods and also recognize the need and importance of teaching aids. <p>Develop the skill in teaching of biological Science by integrating ICT and other modern techno pedagogical skills</p>
			<p>Course Code:711302 Assessment for Learning</p>	<ul style="list-style-type: none"> ➤ The students will be able to understand the issues of assessment and evaluation. ➤ The students gain knowledge in key concepts such as formative, summative assessment, evaluation, measurement, test and examination. ➤ The students will be exposed to different kinds and forms of assessment that aid student learning. ➤ The students will be able to understand the nature of assessment and evaluation and their role in teaching-learning process. <p>The students will be able to develop the skill necessary to compute important statistical estimates and interpret the test scores by applying them.</p>
			<p>Course Code:711401 Knowledge And Curriculum</p>	<ul style="list-style-type: none"> ➤ The students will be able to understand the concept and the need for curriculum in schools. ➤ The students will be able to analyze the principles employed in sequencing the school curriculum and the syllabus at different levels. ➤ The students will be able to understand various concepts of education and models of teaching. ➤ The students will be able to understand models

				<p>and process of curriculum development</p> <p>The students will be able to understand the strategies of curriculum implementation</p>
			<p>Course Code: 711402 CREATING AN INCLUSIVE SCHOOL</p>	<p>At the end of this course the student- teacher shall be able to</p> <ul style="list-style-type: none"> ➤ Propagate the concept of main streaming and inclusion ➤ Apply the national policy programme to uplift the disabled ➤ Identify the special needs of the individuals and fulfill their needs ➤ Promote inclusive education in the context of education for all <p>Apply special techniques of teaching disabled children</p>
			<p>Course Code:711403 Human Rights Education</p>	<ul style="list-style-type: none"> ➤ The students will be able to develop analytical skills to question and appraise Human Rights policies and practices at national and international levels; ➤ The students will be able to explore the substantive knowledge of policies concerning Human Rights Education, prevailing trends in the field of Human Rights Education and of the challenges and contributions of critics; ➤ The students will be able to perceive improvements, discern ambiguities and identify contradictions in the field of Human Rights Education ; ➤ The students will be able to understand the roles of various state and non-state agencies in the promotion and enforcement for

				Human Rights; and The students will be able to identify potential roles for oneself in the promotion of Human Rights Education
			Course Code: 711404 CPS7 - ENVIRONMENTAL EDUCATION	<ul style="list-style-type: none"> ➤ The students will be able to develop analytical skills to question and appraise Human Rights policies and practices at national and international levels; ➤ The students will be able to explore the substantive knowledge of policies concerning Human Rights Education, prevailing trends in the field of Human Rights Education and of the challenges and contributions of critics; ➤ The students will be able to perceive improvements, discern ambiguities and identify contradictions in the field of Human Rights Education ; ➤ The students will be able to understand the roles of various state and non-state agencies in the promotion and enforcement for Human Rights; and <p>The students will be able to identify potential roles for oneself in the promotion of Human Rights Education</p>
			Course Code: 711404 CPS7 - ENVIRONMENTAL EDUCATION	<p>Appreciate the wonder of environment with regard to the dependence of human beings in the environment.</p> <p>Become aware of the various environmental problems and need for environmental management.</p> <p>Develop an attitudinal change regarding environmental protection.</p> <p>Develop an appreciation of implementing</p>

				<p>environmentally sustainable practices. Adopt suitable methods and approaches in teaching of environmental education.</p>
			<p>Course Code: 711405 YOGA EDUCATION</p>	<p>At the end of this course the student – teacher shall be able to</p> <ul style="list-style-type: none"> ➤ Yoga education brings knowledge of yoga techniques and ancient system of yoga. ➤ Develop awareness about the historical aspects of yoga. ➤ The spirit of yoga regulates body, mind soul into harmony and living life to the fullest as a citizen of this country. ➤ Knowledge of health and diseases relevant to the yoga techniques. ➤ Develop mindfulness meditation techniques. <p>Application of yoga importance yoga in education.</p>
			<p>Course code:711406 Disaster Management</p>	<ul style="list-style-type: none"> ➤ The student teachers gain knowledge about general concepts of Disaster Management. ➤ The student teachers will be able to describe various types, trends, control of disasters. ➤ The students teachers able to cope up with disaster management cycle and framework ➤ To explain the disaster management policy and Role of various stake holders on disaster management <p>To aware and cop-up on the applications of science and technology for disaster management.</p>

				<p align="center">Course Code: 711407 EPC3&4 - CRITICAL UNDERSTANDING OF ICT AND UNDERSTANDING THE SELF</p>	<p>At the end of this course the student – teacher shall be able to</p> <ul style="list-style-type: none"> ➤ Utilize the ICT and e-resources in Teaching Learning Process. ➤ Develop ICT skills in through social networking. ➤ Gain experience through by enhancing self concept. ➤ Apply the Intelligence theories in Teaching Learning process. <p align="center">Develop personality and personality traits.</p>
1	B.Ed. Special Education (Visual Impairment)	On successful completion of the programme	The B.Ed. (Special Education) programme aims to prepare the students for the following:	<p>Human Growth And Development</p> <ul style="list-style-type: none"> ➤ Explain the process of development with special focus on infancy, childhood and adolescence. ➤ Critically analyze developmental variations among children. ➤ Comprehend adolescence as a period of transition and threshold of adulthood. <p>Analyze different factors influencing child development</p>	
		1. The students will be able to acquire knowledge & skills about human developmen	1. Acquire knowledg	<p>Contemporary India And Education</p> <ul style="list-style-type: none"> ➤ Explain the history, nature and process and Philosophy of education ➤ Analyse the role of educational system in the context of Modern Ethos ➤ Understand the concept of diversity <p>Develop an understanding of the trends, issues, and challenges faced by the contemporary Indian Education in global context</p>	

	<p>t, contemporary Indian education, and pedagogy of various school subjects and assessment for learning.</p> <p>2. The student will be able to get knowledge</p>	<p>e & skills about human development, contemporary Indian education, and pedagogy of various school subjects and assessment for learning.</p>	<p>PEDAGOGY OF TEACHING TAMIL tpUg;gg;ghlk; - nghJj;jkpo;</p>	<ul style="list-style-type: none"> ➤ jha;nkhop fw;wypd; Nehf;fq;fis mwpe;J nfhs;fpwhu; ➤ gapw;wypy; cs;s jpwd;fis tsh;j;J nfhs;fpwhu; ➤ rpwe;j nkhopg;ghl Mrphpah;fSf;fhd gz;Gfis tsh;j;J nfhs;fpwhu; ➤ ghlj;jpl;lk; - fw;gpj;jy; nghJ Kiw jpwd mwpe;J nfhs;fpwhu; ➤ jfty; El;gtpaYk; jkpo; fw;gpj;jYk - etPd njhopy; El;gr; rhjdq;fspd; gad;ghLfis mwpe;J nfhs;fpwhu; ➤ kjpg;gply; - kjpg;gpLjypd; Nehf;fKk; gaDk mwpe;J nfhs;fpwhu;
	<p>knowledge</p>	<p>and pedagogy of various school subjects and</p>	<p>Pedagogy Of Teaching English</p>	<ul style="list-style-type: none"> ➤ Explain the principles of language teaching, and evolution and trends in English literature. ➤ Prepare an instructional plan in English. ➤ Adapt various approaches and methods to teach English language. ➤ Use various techniques to evaluate the achievement of the learner in English.
	<p>& skills about nature and educational needs of children</p>	<p>assessment for learning.</p> <p>2. Acquire knowledge</p>	<p>Pedagogy of Teaching Special Tamil tpUg;gg;ghlk; - rpwg;Gj; jkpo;</p>	<ul style="list-style-type: none"> ➤ nkhopapd; Njhw;wKk; tsh;r;rpAk; gw;wp mwpe;J nfhs;fpwhh;. ➤ jkpo; nkhopapd; rpwg;gpId mwpe;J nfhs;fpwhh;. ➤ jkpo;nkhopapd; xyp mikg;G Kiwia mwpe;J nfhs;fpwhh;. ➤ jkpo; fw;gpj;jypy; Gjpa Kiwfis mwpe;J nfhs;fpwhh;. ➤ r%fg; gpd;dzpapy; nkhopia tsh;j;Jf; nfhs;fpwhu;. ➤ r%fg; gpd;dzpapy; gz;ghl;il tsh;j;Jf;

	with disabilities as well as of few select	e & skills about nature and		nfhs;fpwhu;. jkpo; nkhopapd; tsh;r;rp epiyapid mwpe;J nfhs;fpwhh;.
	specific disabilities 3. The student will understand the conceptual understand	education al needs of children with disabilities as of few select	Pedagogy Of Teaching Special English	<ul style="list-style-type: none"> ➤ Understand the nature of English and aims and Objectives of teaching English ➤ Describe the aims and objectives of teaching English at school level. ➤ Demonstrate and apply skills to select and use different methods of teaching English. ➤ Demonstrate competencies of planning for teaching English, designing pupil centered teaching learning experiences. <p>Demonstrate skills to design and use various evaluation tools to measure learner achievement in English.</p>
	ing of education provisions and skills for working with children with	specific disabilities. 3. Develop conceptual understanding of	Pedagogy Of Teaching Mathematics	<ul style="list-style-type: none"> ➤ Explain the nature of Mathematics and its historical development with contribution of Mathematicians. ➤ Describe the aims and objectives of teaching Mathematics at school level. ➤ Demonstrate and apply skills to select and use different methods of teaching Mathematics. ➤ Demonstrate competencies of planning for teaching Mathematics, organizing laboratory facilities and equipment designing pupil centered teaching learning experiences.

		various disabilities in Special and inclusive settings.	education provision and skills for working with children with various disabilities in Special and inclusive settings.		<ul style="list-style-type: none"> ➤ Demonstrate skills to design and use various evaluation tools to measure learner achievement in Mathematics.
				Pedagogy Of Teaching Science	<ul style="list-style-type: none"> ➤ Explain the role of science in day to day life and its relevance to modern society. ➤ Describe the aims and objectives of teaching science at school level. ➤ Demonstrate and apply skills to select and use different methods of teaching the content of sciences. ➤ Demonstrate competencies of planning for teaching sciences, organizing laboratory facilities and equipment designing pupil centred teaching learning experiences. ➤ Demonstrate skills to design and use various evaluation tools to measure learner achievement in sciences
			4. Enhance knowledge and skills for profession	Pedagogy Of Teaching Social Science	<ul style="list-style-type: none"> ➤ Explain the concept, nature and scope of social science. ➤ Develop competencies for designing unit and lesson plans, as well as tools of evaluation for social science teaching. ➤ Develop skills in preparation and use of support materials for effective social science teaching. ➤ Develop the ability to organize co-curricular activities and community resources

			al developm ent.		for promoting social science learning.
				Introduction To Sensory And Neuro Developmental Disabilities	<ul style="list-style-type: none"> ➤ Name the different types of sensory impairments and its prevalence and describe the process of hearing & implications of various types of hearing loss. ➤ Describe nature, characteristics & assessment of students with low vision & visual impairment. ➤ Explicate the impact of deaf-blindness & practices for functional development. ➤ Discuss the characteristics and types of learning disability. ➤ Describe the tools, areas of assessment and apply intervention strategies to enhance learning. ➤ Explain the characteristics and types of Intellectual disability. ➤ Describe the tools, areas of assessment and prepare and apply intervention strategies for independent living. ➤ Explain the characteristics and types of Autism Spectrum Disorder. ➤ Describe the tools, areas of assessment and apply intervention strategies.

				<p>Identification of Children With Visual Impairment and Assessment Of Needs</p> <ul style="list-style-type: none"> ➤ Describe the structure of eye and common eye defects. ➤ Explain the etiology of visual impairment. ➤ Analyze the implications of visual impairment and identify their needs. ➤ Develop skills to identify and assess children with visual impairment. ➤ Describe the needs and develop skills to assess children with visual impairment and multiple disabilities (VIMD). ➤ Describe the tools, areas of assessment and apply intervention strategies.
				<p>Curriculum Adaptation and Strategies For Teaching Expanded Curriculum For Children With Visual Impairment</p> <ul style="list-style-type: none"> ➤ Define curriculum, its types and explain its importance. ➤ Demonstrate techniques of teaching functional academic skills. ➤ Explain importance and components of independent living skills. ➤ Explain curricular adaptations with reasonable accommodations. ➤ Illustrate how physical education and creative arts activities can be adapted for the children with visual impairment.

				<p>Intervention and Teaching Strategies For Children With Visual Impairment</p> <ul style="list-style-type: none"> ➤ Explain various theoretical perspectives related to intervention & teaching strategies. ➤ Demonstrate techniques of teaching Mathematics to visually impaired children. ➤ Acquire necessary competencies and skills for teaching science and assessment of the learners with special reference to children with visual impairment. ➤ Acquire and apply necessary skills for adapting TLM in social science and assessment of the learners with special reference to children with visual impairment. ➤ Describe the process of assessment visual efficiency and classroom management for children with low vision.
				<p>Introduction To Locomotor Disabilities and Inclusion & Accessibility</p> <ul style="list-style-type: none"> ➤ Identify the persons with Locomotor disabilities such as Cerebral Palsy, Amputees, Polio, Leprosy cured, Muscular dystrophies, Neural and spinal defects and Multiple disabilities. ➤ Plan an effective programme for creating awareness about the persons with Locomotor disabilities and Multiple disabilities. ➤ Plan an effective therapeutic and programme for the persons with Locomotor disabilities and Multiple disabilities and to refer for medical intervention if necessary. ➤ Plan an effective educational programme and functional activities for the persons with Locomotor disabilities and Multiple disabilities.

				<ul style="list-style-type: none"> ➤ Explain the construct of inclusiveness & the progression from segregation towards valuing & appreciating diversity in Society. ➤ Explicate the national & key international policies & frameworks facilitating Accessible India Campaign ➤ Enumerate the adapting areas of inclusion.
			Technology and Education of Children With Visual Impairment	<ul style="list-style-type: none"> ➤ Relate the concept and nature of educational technology and ICT to the education of children with visual impairment. ➤ Acquire knowledge of the concept and nature of adaptive technology and explain underlying principles and techniques. ➤ Get familiar with technologies for print-access for children with visual impairment. ➤ Describe and use different technologies for teaching low vision children as also various school subjects. ➤ Demonstrate understanding of computer-based teaching-learning processes. Enumerate the adapting areas of inclusion.
			Learning, Teaching And Assessment	<ul style="list-style-type: none"> ➤ Comprehend the theories of learning and intelligence and their applications for teaching children ➤ Analyse the learning process, nature and theory of motivation ➤ Describe the stages of teaching and learning and the role of teacher ➤ Situate self in the teaching learning process

					<ul style="list-style-type: none"> ➤ Analyze the scope and role of assessment in teaching learning process in order to introduce dynamic assessment scheme for educational set up towards enhanced learning.
				<p>Reading & Reflecting on Texts (Epc) and Drama & Arts In Education (Epc)</p>	<ul style="list-style-type: none"> ➤ Reflect upon current level of literacy skills of the self. ➤ Show interest and begin working upon basic skills required to be active readers in control of own comprehension. ➤ Show interest and begin working upon basic skills required to be independent writers understanding adequate intent, audience and organization of the content. ➤ Prepare self to facilitate good reading writing in students across the ages. ➤ Find reading writing as learning and recreational tools rather than a course task. ➤ Exhibit Basic understanding in art appreciation, art expression and art education. ➤ Plan and implement facilitating strategies for students with and without special needs. ➤ Discuss the adaptive strategies of artistic expression. ➤ Discuss how art can enhance learning.
				<p>Management of Learning Disability and Vocational Training For Transition & Job Placement</p>	<ul style="list-style-type: none"> ➤ Explain the concept, causes and characteristics of learning disabilities. ➤ Discuss different types of learning disabilities and its associated conditions. ➤ Develop teacher made assessment test in curricular areas.

				<ul style="list-style-type: none"> ➤ Plan appropriate teaching strategies as per the specific needs of children with learning disability. ➤ Develop an understanding of vocational education & its relevance for PWD's. ➤ Carry out vocational assessment and make vocational training plan. ➤ Plan for transition from School to job. ➤ Identify various avenues for job placement. ➤ Facilitate PWD's in making choice of vocational trades. ➤ Acquire the concept of independent living and empowerment.
			<p>Orientation & Mobility and Augmentative, Alternative Communication</p>	<ul style="list-style-type: none"> ➤ Describe the nature and scope of O&M as also the O&M related responsibilities of the special teacher. ➤ Acquire basic knowledge of human guide techniques. ➤ Describe pre-cane and cane travel skills and devices. ➤ Get acquainted with the importance and skills of training in independent living for the visually impaired.
			<p>Communication Options: Oralism, Manual (Indian Sign Language)</p>	<ul style="list-style-type: none"> ➤ Discuss the relevant issues like literacy, inclusion and training with reference to Oralism /Oral Rehabilitation. ➤ Exhibit beginner level hands on skills in using these options. ➤ Motivate self to learn and practice more skills leading to linguistic adequacy and fluency to be used while developing spoken language in

					<p>children with hearing losses.</p> <ul style="list-style-type: none"> ➤ Discuss the two manual options with reference to Indian special schools. ➤ Discuss the relevant issues like literacy, inclusion and training with reference to manual options. ➤ Describe manual options in the light of issues like language, culture and identify. ➤ Exhibit beginner level hands on skills in using manual options. ➤ Motivate self to learn and practice more skills leading to linguistic adequacy and fluency.
				Inclusive Education	<ul style="list-style-type: none"> ➤ Explain the construct of inclusive education & the progression from segregation towards valuing & appreciating diversity in inclusive education. ➤ Explicate the national & key international policies & frameworks facilitating inclusive education. ➤ Enumerate the skills in adapting instructional strategies for teaching in mainstream classrooms. ➤ Describe the inclusive pedagogical practices & its relation to good teaching. ➤ Expound strategies for collaborative working and stakeholders support in implementing inclusive education.

				<p>Psycho Social And Family Issues Of Children With Visual Impairment</p> <ul style="list-style-type: none"> ➤ Describe the effect of birth of a child with visual impairment on the family. ➤ Analyze the role of family and parental concerns related to their child with visual impairment from birth to adulthood. ➤ Explain the role of parent community partnership in the rehabilitation of a person with visual impairment. ➤ Develop different skills to empower families in meeting the challenges of having a child with visual impairment.
				<p>Basic Research & Basic Statistics and Action Research</p> <ul style="list-style-type: none"> ➤ Describe the concept and relevance of research in education and special education. ➤ Develop an understanding of the research process and acquire competencies for conducting a research. ➤ Apply suitable measures for data organization and analysis. ➤ Able to understand the basics of action research ➤ Undertake a minor Action Research and find out a solution to a problem.
				<p>Nai Talim – Experiential Learning</p> <ul style="list-style-type: none"> ➤ Understand the concept of local community engagement in teacher education ➤ Understand the context of the child from various backgrounds and occupations ➤ Know the school education program and policies which have local community engagement aspects

					<ul style="list-style-type: none"> ➤ Learn the process of connecting the text with the Child/learner within the local context ➤ Distinguish traditional from constructive approaches of local community engagement
				Guidance & Counselling and Applied Behaviour Analysis	<ul style="list-style-type: none"> ➤ Apply the skills of guidance and counselling in classroom situations. ➤ Describe the process of development of self-image and self-esteem. ➤ Appreciate the types and issues of counselling and guidance in inclusive settings. ➤ Develop an understanding of the underlying principles and assumptions of Applied Behavioural Analysis (ABA). ➤ Use various measures of behavioural assessment. ➤ Apply methods of ABA in teaching and learning environments. ➤ Integrate techniques of ABA in teaching programs. ➤ Select suitable strategies for managing challenging behaviours.
				Early Childhood Care & Education and Community Based Rehabilitation	<ul style="list-style-type: none"> ➤ Explain the biological & sociological foundations of early childhood education. ➤ Describe the developmental systems approach and role responsibilities of interdisciplinary teams for early education of children with disabilities. ➤ Enumerate the inclusive early education pedagogical practices. ➤ Explain the concept, principles and scope of community based rehabilitation.

				<ul style="list-style-type: none"> ➤ Learn the strategies for promoting public participation in CBR. ➤ Apply suitable methods for preparing persons with disability for rehabilitation within the community. ➤ Provide need-based training to persons with disabilities. ➤ Develop an understanding of the role of government and global agencies in CBR.
			Braille & Assistive Devices and Application Of Ict In Classroom	<ul style="list-style-type: none"> ➤ Acquire basic information about Braille, its relevance and some important functional aspects. ➤ Get basic information on types and significance of different Braille devices. ➤ Get acquainted with the types and significance of basic devices relating to Mathematics, Science, Geography and Low Vision as also on sources of their availability. ➤ Gauge the varying dimensions in respect of ICT and Applications in Special Education. ➤ Delineate the special roles of ICT Applications. ➤ Acquire Familiarity with Different Modes of Computer-Based Learning
			Value Education	<ul style="list-style-type: none"> ➤ Understand the need of values and its classification in contemporary society. ➤ Appreciate the values needed for peaceful society like democratic, secular, and socialist etc. ➤ Become aware of role of education in building value as dynamic social reality. ➤ Know the importance of value education towards personal, national and global

					development.
				Gender and Disability	<ul style="list-style-type: none"> ➤ Develop an understanding of human rights based approach in context of disability. ➤ Explain the impact of gender on disability. ➤ Describe the personal and demographic perspectives of gender and disability. ➤ Analyse the issues related to disabled women and girl children.
2	B.Ed. Special Education (Intellectual Disability)	On successful completion of the programme 1. The students will be able to acquire knowledge & skills about	The B.Ed. (Special Education) programme aims to prepare the students for the following: 1. Acquire	Human Growth And Development	<ul style="list-style-type: none"> ➤ Explain the process of development with special focus on infancy, childhood and adolescence. ➤ Critically analyze developmental variations among children. ➤ Comprehend adolescence as a period of transition and threshold of adulthood. ➤ Analyze different factors influencing child development
				Contemporary India And Education	<ul style="list-style-type: none"> ➤ Explain the history, nature and process and Philosophy of education ➤ Analyse the role of educational system in the context of Modern Ethos ➤ Understand the concept of diversity <p>Develop an understanding of the trends, issues,</p>

	human development, contemporary Indian education, and pedagogy of various school subjects and assessment for learning.	knowledge & skills about human development, contemporary Indian education, and pedagogy of various school subjects and assessment for learning.		and challenges faced by the contemporary Indian Education in global context
	2. The student will be able to get knowledge & skills	2. The student will be able to get knowledge & skills	PEDAGOGY OF TEACHING TAMIL tpUg;gg;ghlk; - nghJj;jkpo;	<ul style="list-style-type: none"> ➤ jha;nkhop fw;wypd; Nehf;fq;fis mwpe;J nfhs;fpwhu; ➤ gapw;wypy; cs;s jpwd;fis tsh;j;J nfhs;fpwhu; ➤ rpwe;j nkhopg;ghl Mrphpah;fSf;fhd gz;Gfis tsh;j;J nfhs;fpwhu; ➤ ghlj;jpl;lk; - fw;gpj;jy; nghJ Kiw jpwid mwpe;J nfhs;fpwhu; ➤ jfty; El;gtpaYk; jkpo; fw;gpj;jYk - etPd njhopy; El;gr; rhjdq;fspd; gad;ghLfis mwpe;J nfhs;fpwhu; ➤ kjpg;gply; - kjpg;gpLjypd; Nehf;fKk; gaDk mwpe;J nfhs;fpwhu;
			Pedagogy Of Teaching English	<ul style="list-style-type: none"> ➤ Explain the principles of language teaching, and evolution and trends in English literature. ➤ Prepare an instructional plan in English. ➤ Adapt various approaches and methods to teach English language. ➤ Use various techniques to evaluate the achievement of the learner in English.

	about nature and educational needs of children with disabilities as well as of few select	Acquire knowledge & skills about nature and educational needs of children with disabilities as well as of few select	Pedagogy of Teaching Special Tamil tpUg;gg;ghlk; - rpwg;Gj; jkpo;	<ul style="list-style-type: none"> ➤ nkhopapd; Njhw;wKk; tsh;r;rpAk; gw;wp mwpe;J nfhs;fpwhh;. ➤ jkpo; nkhopapd; rpwg;gp id mwpe;J nfhs;fpwhh;. ➤ jkpo;nkhopapd; xyp mik;G Kiwia mwpe;J nfhs;fpwhh;. ➤ jkpo; fw;gpj;jypy; Gjpa Kiwfis mwpe;J nfhs;fpwhh;. ➤ r%fg; gp d;dzpapy; nkhopia tsh;j;Jf; nfhs;fpwhu;. ➤ r%fg; gp d;dzpapy; gz;ghl;il tsh;j;Jf; nfhs;fpwhu;. jkpo; nkhopapd; tsh;r;rp epiyapid mwpe;J nfhs;fpwhh;.
	specific disabilities 3. The student will understand the conceptual understanding of	children with disabilities as well as of few select specific disabilities.	Pedagogy Of Teaching Special English	<ul style="list-style-type: none"> ➤ Understand the nature of English and aims and Objectives of teaching English ➤ Describe the aims and objectives of teaching English at school level. ➤ Demonstrate and apply skills to select and use different methods of teaching English. ➤ Demonstrate competencies of planning for teaching English, designing pupil centered teaching learning experiences. <p>Demonstrate skills to design and use various evaluation tools to measure learner achievement in English.</p>
	education provisions and skills	3. Develop conceptual	Pedagogy Of Teaching Mathematics	<ul style="list-style-type: none"> ➤ Explain the nature of Mathematics and its historical development with contribution of Mathematicians. ➤ Describe the aims and objectives of teaching Mathematics at school level. ➤ Demonstrate and apply skills to select

	for working with children with various disabilities in Special and	al understanding of education provisions and skills for		and use different methods of teaching Mathematics. ➤ Demonstrate competencies of planning for teaching Mathematics, organizing laboratory facilities and equipment designing pupil centered teaching learning experiences. ➤ Demonstrate skills to design and use various evaluation tools to measure learner achievement in Mathematics.
	inclusive settings.	working with children with various disabilities in Special and inclusive	Pedagogy Of Teaching Science	➤ Explain the role of science in day to day life and its relevance to modern society. ➤ Describe the aims and objectives of teaching science at school level. ➤ Demonstrate and apply skills to select and use different methods of teaching the content of sciences. ➤ Demonstrate competencies of planning for teaching sciences, organizing laboratory facilities and equipment designing pupil centred teaching learning experiences. ➤ Demonstrate skills to design and use various evaluation tools to measure learner achievement in sciences
		settings. 4. Enhance knowledge and	Pedagogy Of Teaching Social Science	➤ Explain the concept, nature and scope of social science. ➤ Develop competencies for designing unit and lesson plans, as well as tools of evaluation for social science teaching. ➤ Develop skills in preparation and use of support materials for effective social science

			skills for professional development.		teaching. <ul style="list-style-type: none"> ➤ Develop the ability to organize co-curricular activities and community resources for promoting social science learning.
				Introduction To Sensory And Neuro Developmental Disabilities	<ul style="list-style-type: none"> ➤ Name the different types of sensory impairments and its prevalence and describe the process of hearing & implications of various types of hearing loss. ➤ Describe nature, characteristics & assessment of students with low vision & visual impairment. ➤ Explicate the impact of deaf-blindness & practices for functional development. ➤ Discuss the characteristics and types of learning disability. ➤ Describe the tools, areas of assessment and apply intervention strategies to enhance learning. ➤ Explain the characteristics and types of Intellectual disability. ➤ Describe the tools, areas of assessment and prepare and apply intervention strategies for independent living. ➤ Explain the characteristics and types of Autism Spectrum Disorder. ➤ Describe the tools, areas of assessment and apply intervention strategies.

			Identification of Children With Intellectual Disabilities and Assessment of Needs	<ul style="list-style-type: none">➤ Comprehend historical perspective, nature and needs and characteristics of persons with Intellectual Disability.➤ Understand various procedures, areas and approaches of assessment and their relevance.➤ Gain insight into importance of assessment at Pre School and school level and become familiar with development and adaptive behavioural assessment and assessment tools at preschool level.➤ Get familiarized assessment tools for independent living, provisions and schemes for vocational skills development and implication of assessment.➤ Develop understanding about significance of different types of family needs their assessment and implications for extending support to their families, demonstration.
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			<p>Curriculum Designing, Adaptation and Evaluation of Children with Intellectual Disabilities</p>	<ul style="list-style-type: none"> ➤ Understand nature of curriculum, principles and steps of curriculum designing, domains and curriculum evaluation. ➤ Develop insight into importance of early childhood special education, its domains and school readiness programme and their implications. ➤ Understand different strategies for curriculum adaptation, accommodation, modification and their significance. ➤ Evaluation and make effective use of different techniques.
			<p>Intervention and Teaching Strategies For Children with Intellectual Disabilities</p>	<ul style="list-style-type: none"> ➤ Appreciate and orient oneself in understanding, planning and using intervention appropriately and demonstrate it. ➤ Realize the importance of developing IEP, acquire the required competencies for its development, implementation and evaluation. ➤ Understand basic of learning and teaching and acquire competency to select and demonstrate appropriate teaching strategies for teaching in different curriculum areas. ➤ Understand nature and identification maladaptive behaviour and develop insight into various modes of its management. ➤ Develop understanding of various therapeutics interventions, their objectives, scope, modalities, and require intervention.

				<p>Introduction To Locomotor Disabilities and Inclusion & Accessibility</p> <ul style="list-style-type: none"> ➤ Identify the persons with Locomotor disabilities such as Cerebral Palsy, Amputees, Polio, Leprosy cured, Muscular dystrophies, Neural and spinal defects and Multiple disabilities. ➤ Plan an effective programme for creating awareness about the persons with Locomotor disabilities and Multiple disabilities. ➤ Plan an effective therapeutic and programme for the persons with Locomotor disabilities and Multiple disabilities and to refer for medical intervention if necessary. ➤ Plan an effective educational programme and functional activities for the persons with Locomotor disabilities and Multiple disabilities. ➤ Explain the construct of inclusiveness & the progression from segregation towards valuing & appreciating diversity in Society. ➤ Explicate the national & key international policies & frameworks facilitating Accessible India Campaign ➤ Enumerate the adapting areas of inclusion.
				<p>Technology and Education of Children with Intellectual Disabilities</p> <ul style="list-style-type: none"> ➤ Comprehend role of technology in educating children with ID and acquire knowledge about its various approaches and modes. ➤ Understand nature of ICT, its basis, development and use. ➤ Use computer programme and software

					<p>for the benefit of children with ID.</p> <ul style="list-style-type: none"> ➤ Develop skills and competencies in use of Punarjani and C-DAC and integrate technology for instructions and inclusion. ➤ Apply technology for developing lesson plan and adapted assistive devices.
				Learning, Teaching and Assessment	<ul style="list-style-type: none"> ➤ Comprehend the theories of learning and intelligence and their applications for teaching children ➤ Analyse the learning process, nature and theory of motivation ➤ Describe the stages of teaching and learning and the role of teacher ➤ Situate self in the teaching learning process ➤ Analyze the scope and role of assessment in teaching learning process in order to introduce dynamic assessment scheme for educational set up towards enhanced learning.
				Reading & Reflecting on Texts (Epc) And Drama & Arts in Education (Epc)	<ul style="list-style-type: none"> ➤ Reflect upon current level of literacy skills of the self. ➤ Show interest and begin working upon basic skills required to be active readers in control of own comprehension. ➤ Show interest and begin working upon basic skills required to be independent writers understanding adequate intent, audience and organization of the content. ➤ Prepare self to facilitate good reading writing in students across the ages. ➤ Find reading writing as learning and

				<p>recreational tools rather than a course task.</p> <ul style="list-style-type: none"> ➤ Exhibit Basic understanding in art appreciation, art expression and art education. ➤ Plan and implement facilitating strategies for students with and without special needs. ➤ Discuss the adaptive strategies of artistic expression. ➤ Discuss how art can enhance learning.
			<p>Management of Learning Disability and Vocational Training For Transition & Job Placement</p>	<ul style="list-style-type: none"> ➤ Explain the concept, causes and characteristics of learning disabilities. ➤ Discuss different types of learning disabilities and its associated conditions. ➤ Develop teacher made assessment test in curricular areas. ➤ Plan appropriate teaching strategies as per the specific needs of children with learning disability. ➤ Develop an understanding of vocational education & its relevance for PWD's. ➤ Carry out vocational assessment and make vocational training plan. ➤ Plan for transition from School to job. ➤ Identify various avenues for job placement. ➤ Facilitate PWD's in making choice of vocational trades. ➤ Acquire the concept of independent living and empowerment.

				<p>Orientation & Mobility and Augmentative, Alternative Communication</p> <ul style="list-style-type: none"> ➤ Describe the nature and scope of O&M as also the O&M related responsibilities of the special teacher. ➤ Acquire basic knowledge of human guide techniques. ➤ Describe pre-cane and cane travel skills and devices. ➤ Get acquainted with the importance and skills of training in independent living for the visually impaired.
				<p>Communication Options: Oralism, Manual (Indian Sign Language)</p> <ul style="list-style-type: none"> ➤ Discuss the relevant issues like literacy, inclusion and training with reference to Oralism /Oral Rehabilitation. ➤ Exhibit beginner level hands on skills in using these options. ➤ Motivate self to learn and practice more skills leading to linguistic adequacy and fluency to be used while developing spoken language in children with hearing losses. ➤ Discuss the two manual options with reference to Indian special schools. ➤ Discuss the relevant issues like literacy, inclusion and training with reference to manual options. ➤ Describe manual options in the light of issues like language, culture and identify. ➤ Exhibit beginner level hands on skills in using manual options. ➤ Motivate self to learn and practice more skills leading to linguistic adequacy and fluency.

				<p>Inclusive Education</p> <ul style="list-style-type: none"> ➤ Explain the construct of inclusive education & the progression from segregation towards valuing & appreciating diversity in inclusive education. ➤ Explicate the national & key international policies & frameworks facilitating inclusive education. ➤ Enumerate the skills in adapting instructional strategies for teaching in mainstream classrooms. ➤ Describe the inclusive pedagogical practices & its relation to good teaching. ➤ Expound strategies for collaborative working and stakeholders support in implementing inclusive education.
			<p>Psycho Social and Family Issues of Children with Intellectual Disabilities</p>	<ul style="list-style-type: none"> ➤ Realize importance and role of family in rehabilitation of children with ID. ➤ Develop insight into various Psycho-social issues and their impact on rehabilitation on PwID, misconception and social practices and develop based approach. ➤ To realize importance of family involvement in rehabilitation process by forming parents self help group and parent association. ➤ Understand various Adolescent related issues and challenges their implication for rehabilitation of PwIDs and to explore probable employment opportunities for them. ➤ Comprehend role of community and community participation and models, advantages / disadvantages of CBR programme for PwIDs.

				<p>Basic Research & Basic Statistics and Action Research</p> <ul style="list-style-type: none"> ➤ Describe the concept and relevance of research in education and special education. ➤ Develop an understanding of the research process and acquire competencies for conducting a research. ➤ Apply suitable measures for data organization and analysis. ➤ Able to understand the basics of action research ➤ Undertake a minor Action Research and find out a solution to a problem.
				<p>Nai Talim – Experiential Learning</p> <ul style="list-style-type: none"> ➤ Understand the concept of local community engagement in teacher education ➤ Understand the context of the child from various backgrounds and occupations ➤ Know the school education program and policies which have local community engagement aspects ➤ Learn the process of connecting the text with the Child/learner within the local context ➤ Distinguish traditional from constructive approaches of local community engagement
				<p>Guidance & Counselling and Applied Behaviour Analysis</p> <ul style="list-style-type: none"> ➤ Apply the skills of guidance and counselling in classroom situations. ➤ Describe the process of development of self-image and self-esteem. ➤ Appreciate the types and issues of counselling and guidance in inclusive settings. ➤ Develop an understanding of the

					<p>underlying principles and assumptions of Applied Behavioural Analysis (ABA).</p> <ul style="list-style-type: none"> ➤ Use various measures of behavioural assessment. ➤ Apply methods of ABA in teaching and learning environments. ➤ Integrate techniques of ABA in teaching programs. ➤ Select suitable strategies for managing challenging behaviours.
				<p>Early Childhood Care & Education and Community Based Rehabilitation</p>	<ul style="list-style-type: none"> ➤ Explain the biological & sociological foundations of early childhood education. ➤ Describe the developmental systems approach and role responsibilities of interdisciplinary teams for early education of children with disabilities. ➤ Enumerate the inclusive early education pedagogical practices. ➤ Explain the concept, principles and scope of community based rehabilitation. ➤ Learn the strategies for promoting public participation in CBR. ➤ Apply suitable methods for preparing persons with disability for rehabilitation within the community. ➤ Provide need-based training to persons with disabilities. ➤ Develop an understanding of the role of government and global agencies in CBR.

				<p>Braille & Assistive Devices and Application Of Ict In Classroom</p> <ul style="list-style-type: none"> ➤ Acquire basic information about Braille, its relevance and some important functional aspects. ➤ Get basic information on types and significance of different Braille devices. ➤ Get acquainted with the types and significance of basic devices relating to Mathematics, Science, Geography and Low Vision as also on sources of their availability. ➤ Gauge the varying dimensions in respect of ICT and Applications in Special Education. ➤ Delineate the special roles of ICT Applications. ➤ Acquire Familiarity with Different Modes of Computer-Based Learning
				<p>Value Education</p> <ul style="list-style-type: none"> ➤ Understand the need of values and its classification in contemporary society. ➤ Appreciate the values needed for peaceful society like democratic, secular, and socialist etc. ➤ Become aware of role of education in building value as dynamic social reality. ➤ Know the importance of value education towards personal, national and global development.
				<p>Gender and Disability</p> <ul style="list-style-type: none"> ➤ Develop an understanding of human rights based approach in context of disability. ➤ Explain the impact of gender on disability. ➤ Describe the personal and demographic perspectives of gender and disability. ➤ Analyse the issues related to disabled women and girl children.

2	B.P.Ed	1. To Produce competence and skilled Director of Physical education and Physical Education Teachers at Schools, National and International Level.	To Produce Excellence Physical Education Teachers	<i>History, Principles And Foundation Of Physical Education</i>	<p>1. Demonstrate their understanding of how individuals learn and develop to provide opportunities that support their physical, cognitive, social and emotional development.</p> <p>2. Identify historical, philosophical, and social perspectives of physical education issues and legislation.</p> <p>3. Analyze and correct critical elements of motor skills and performance concepts.</p> <p>4. Given their own abilities, demonstrate personal competence in motor skill performance for a variety of physical activities and movement patterns.</p> <p>5. Achieve and maintain a health-enhancing level of fitness throughout the program.</p>
		<p>2. To Produce a good quality of Coaches, Fitness Trainers at National and International level to make nation fitness.</p> <p>3. To produce a good</p>		Anatomy Physiology sports medicine, physiotherapy and rehabilitation	<p>To create the indispensable knowledge of anatomy and physiology.</p> <p>To the enhancement of the responsiveness about the treatment method through Sports Medicine, Physiotherapy and rehabilitation for the sports persons.</p> <p>To cultivate the Knowledge about research and innovations in physical education.</p> <p>To instigate the Statistical knowledge for their bright future.</p>

		<p>Researchers in sports Biomechanist.</p> <p>4. To Produce a elite TamilNadu Police. Reserve Police Force.</p>			
				<p>Organization, administration and sports management</p>	<ul style="list-style-type: none"> • This course is designed to familiarize • The student with general principles of administration in physical education and sports programs. By the end of the course the students should have knowledge of organizing and operating physical education programs, sport programs, sporting events.
				<p>Olympic movement</p>	<ul style="list-style-type: none"> • To enable and strengthen Sports • To ensure their independence and duration • To enable them better to fulfil the educational role incumbent, upon them in the modern world. • Life not the triumph, but the fight. • The essential thing is not to have won, but to have fought well.

			Yoga Education	Students who complete the program will demonstrate, Knowledge of the teachings and philosophy of the yoga tradition, with diverse yogic perspectives on the structure, states, functions, and conditions of the body and the mind in balance (and out of balance), based on teachings of the Yoga Sutras, the Bhagavad Gita, and other relevant texts
			Educational technology and methods of teaching in Physical education	<ol style="list-style-type: none"> 1. To know about teaching technology tools introduced in system approach. 2. To understand the role of media in physical education. 3. To design and implement on instructional design. 4. To evaluate the recent trends and application of innovative technologies in research.
			Health education and environmental studies	<ul style="list-style-type: none"> • To cultivate the knowledge about the environment and globalization. • To nurture about the health services. • To create the awareness about the communicable diseases. • To create the knowledge about the pollution in environments.
			Contemporary issues in physical education fitness wellness, sports nutrition and weight management.	<ul style="list-style-type: none"> • Apply knowledge of the underlying principles and concepts of Exercise and Sport Science. Including the core areas of: Human Physiology, Anatomy, Functional Anatomy, Exercise Physiology, Biomechanics, Motor Learning and Control, Exercise Metabolism and Nutrition, and Psychology • Review, analyse and interpret information, and independently generate conclusions • Communicate knowledge through a variety of

					<p>modalities</p> <ul style="list-style-type: none"> • Contextualise discipline knowledge to performance sports and / or health, disease and ageing • Available evidence suggests that mathematics and reading are the academic topics that are most influenced by physical activity. These topics depend on efficient and effective executive function, which has been linked to physical activity and physical fitness.
				Sports training	<ol style="list-style-type: none"> 1. An ability to achieve a given performance repeatedly is referred to as efficiency. 2. To achieve maximum individual or team efficiency in a selected sports discipline limited by rules. 3. Reaching maximum efficiency in any activity is not possible over a day. 4. a process of preparation for a sport performance, put simply. It consists of four parts: Conditioning training (strength training, endurance training, flexibility training) Training of technique (Technical preparation) 5. Training is extremely important and should form an integral part of all elite athlete's daily routines. Training allows the body to gradually build up strength and endurance, improve skill levels and build motivation, ambition and confidence.

			Computer applications in physical education	<ol style="list-style-type: none"> 1. To handle the computer systems in proper manner. 2. To getting the awareness about internet programmes. 3. To provoke the knowledge about Statistical method. 4. To make a research process. 5.To explore the knowledge of all Physical education subjects
			Sports psychology and sociology	<ul style="list-style-type: none"> • To maintain the full recognition and interests in sports psychology and sociology. The Physical Education teachers, coaches, sports trainer's and sports professionals also can be a caliber corrector. • To serve in society with full confident without seeking others help
			12. Curriculum Design	<ul style="list-style-type: none"> • Creative and flexible approaches to learning and teaching • Offering an innovative curriculum developed with the aspirations and interests of the student at the centre • Making effective use of ICT and new technologies to motivate and inspire students • Nurturing close partnerships with local and international organisations, giving students a wide range of opportunities to experience the world of work.
			Measurement and evaluation in physical education	<ol style="list-style-type: none"> 1. Explain the Basics of Measurements and Evaluation of Various Test and Measurement Technique. 2. Develop the concepts of Measurements and Evaluation in Physical Education and Sports. 3. Develop the ability to construct new Test for

				<p>various Need related to Physical Education and Sports with Scientific Authenticity.</p> <p>4. To Analyze various Test and Performance related to Physical Education.</p>
			Kinesiology and biomechanics	<p>Describe physiological concepts related to exercise testing (i.e. maximal aerobic testing, anaerobic testing, body composition analysis). Understand and debate current exercise physiology principles based on historical and technological changes (i.e., anaerobic threshold, body composition analysis)</p> <p>Identify critical elements of the bones and muscles involved in human movement and combine the concepts related to anatomy and physiology with biomechanics</p> <p>Describe and apply anatomical, physiological and biomechanical concepts to exercise testing, health and fitness. Demonstrate knowledge of approved National standards for exercise testing and prescription</p>
			Research and statistics in physical education	<ul style="list-style-type: none"> • Understand some basic concepts of research and its methodologies • Identify appropriate research topics • Select and define appropriate research problem and parameters • Prepare a project proposal (to undertake a project) • Organize and conduct research (advanced project) in a more appropriate manner

					<ul style="list-style-type: none"> • Learn and parches the literature survey aspect of project and prepare the scope and goals for the proposed of project • Write research report and thesis <p>Write a research proposal (grants)</p>
				Theory of sports and games	<p>To know the rules and regulations of games and sports.</p> <p>To know the organization and administration about the theory of sports and games.</p> <p>To know the application technique about sports and games.</p> <p>To know the officiating systems.</p>

PG Diploma Courses

S. No.	Program outcomes		Program specific outcomes	Course outcomes	
	Name of the Program	Outcome		Name of the Course	Outcome
1.	PG., Diploma in Fashion Designing	<ul style="list-style-type: none"> • Designer Assistant • Junior Merchandiser • Production Assistant 		Fiber to fabric	Studied the properties of fiber, manufacturing process and its application in various end uses.
				Basic Sewing Techniques	Gain Knowledge in parts and function of sewing machine, seam, fullness.
				Fashion Designing Lab	Known the elements & principles of design and its application in garment designing.
				Sewing Techniques- Lab	Studied basic hand, machine stitches and prepare the samples for different garment finishes.
				Fashion Designing	Understand the elements and principles of design and its application in garment design.

			Fashion Business communication	Got an idea on the importance in fashion business communication, techniques and promotional skills.
			Fashion and Apparel Merchandising	Gain the basic concepts in fashion and fashion merchandising and responsibilities of merchandiser
			Fashion Clothing Psychology	Understand the consumer needs in purchase of clothing and knew national and international fashion designer.
			Visual Merchandising	Understand the retailing, store plan and importance of marketing strategies and visual merchandising.
			Textile Dyeing and printing	Studied the fabric preparatory process in textile processing industry and technological advancement.
			Garment quality testing and assurance	Know about the importance of testing parameters in garment industry and inspection system
			Garment Manufacturing Technology	Got insight knowledge in machineries and technology adoption in garment construction
			CAD - Lab	Learnt about the software applications and create designs by Corel Draw, Photoshop and CAD Pattern making.
			Mini-Project	Gain knowledge in garment industry process.
			Garment construction for kids and Adult wear - Lab	Learnt out the design and construct the garment for different age group.
			Surface ornamentation and accessories Lab	Understand the basic embroidery Stitches and development of design.
			Textile textng - Lab	Learnt out the fibre, yarn fabric

					testing methods.
				Textile dyeing and printing - Lab	Gain knowledge in preparatory process of textile materials
				Corporate Etiquette Skills	Studied the required skills and proper business etiquettes among the students to build good corporate relationship with the customers and their colleagues.
				Indian traditional textiles and embroidery	Studied the origin of costumes from ancient to modern time and traditional textiles, embroideries.
				Textile Finishing	Studied the different finishing methods used in textile fabric.

Diploma Courses

S. No.	Program outcomes		Program specific outcomes	Course outcomes	
	Name of the Program	Outcome		Name of the Course	Outcome
1.	D.F.A Drawing and Painting			233101 Elements and principals of Art	A broad, applied knowledge of fundamental strategies, and methods of contemporary art-making and painting
				233102 History of Indian Painting	How to acquire a solid understanding of the roles of art and visual culture in a particular historical period and/or world culture
				233103 Freehand Drawing	Use a range of freehand drawing media and skills related to visual communication. Draw

					freehand lines of various forms, shapes, textures, and qualities.
				233104 Observational Study	An ability to draw observationally, appropriately applying an understanding of line, value, volume, proportion, and perspective in a unified composition.
				233105 Still life Painting	Able to demonstrate image manipulation techniques necessary to deconstruct, reformulate, and translate single and groups of objects into effective compositions.
				233106 Life Study and Portrait	A student will demonstrate an ability to draw the human figure observationally, appropriately applying an understanding of basic drawing skills, gesture, proportion, and artistic anatomy.
				233201 Methods and Materials	Knowledge and skills in the use of basic tools, techniques, and processes sufficient to work from concept to finished product, including knowledge of paints and surfaces.
				233202 History of Western Art	Students will demonstrate their knowledge of art terminology and methodology by

					analyzing an appropriate example from renaissance through art including a description of subject matter and iconography, an analysis of form and style, and a comprehensive interpretation of its overall meaning(s) in relation to context.
				233203 Oil Painting	Studies the language of painting through color, form, materials, and techniques. Aspects of traditional and modern pictorial composition are studied including proportion, space, and color theory through the representation of a variety of subjects.
				233204 Water colour Painting	Able to demonstrate paper stretching, flat and graded washes, wet into wet, lifting-out, and detailing techniques in combination with basic color principles such as hue, value, temperature, intensity, complementary, analogous, and split-complementary
				233205 Mural Painting	Student will experiment with a variety of painting surfaces in order to describe and explain how paint reacts to different surface

					qualities.
				233206 Illustration	How to acquire analytical skills to enable them to access (latent and manifest) meanings in visual images, developing a visual literacy
2.	Diploma Course in Bharathanatyam	Higher studies	Physical fit Concentration Self defense	253101 Origin of Bharathanatyam	Improving Physical And Mental Health Basic Foundation Of Dance
		Acting Dance teacher Modelling		253102 Basic theory of Vocal Music (Allied)	Fundamentals of Music and its importance Concept and usage of thalas
				253103 Practical-1	Body flexibility and dance basic
				253201 LASYAM AND TANDAVAM	Better understanding about the traditions and culture being followed in bharathanatyam
				253202 SAPTHA THALA SWARAS (Allied)	Handling of ragas and appropriate thaalas for the Bharatanatyam items
				253203 Practical-II	second level dance
3.	Advance Diploma Course in Bharathanatyam	Higher studies Acting Dance teacher Modelling Specifying central government	Physical fit Concentration Self defence Self income	250101 History of Bharathanatyam	Learn the bharathanatyamorigin, and mythology. Learn the pre – historic period bharathanatyam Structure. Learn the Silapathikarambhara thanatyam related

		jobs(railways)			analyze study
				250102 Margam of Bharathanatyam	Principial Dances In Dance Companies Employed As Dance Teacher In International school
				250103 Practical	Karnas basics and folk style of dance
				250201 Arangettram	Learn the Bharathanatyam Origin, and Mythology. Learn The Pre –Historic Period Bharathanatiam Structure . Learn The SilapathikaramBharathan atyam Related Analyze Study.
				250202 India's Other Classical Dance Forms	Choreographer Learn the other Indian classical items and then origin and recent advances.
				250203 Practical	Karnas basics and folk style of dance
4.	Diploma Course in keyboard	Teacher & Eligible to join Higher Diploma		254101 Fingering in keys	Obtain knowledge in Keys
				254102 Importance of carnatic music	Enable to play thala in using keyboard
				254103 Practical - I	Obtain speed without error
				254201 Western Music	Obtain knowledge in playing Classical Music in Keyboard
				254202 Carnatic Ragas	Obtain knowledge Saptha and Thala in

					playing keyboard
				254203 Practical -II	Learn to basic classical music
5.	Diploma Course in Violin	Teacher & Eligible to join Higher Diploma		256101 Basic concepts of music Theory	Better understanding about the Carnatic being followed in Music
				256102 Importance of carnatic music	Known about the Musical Instrument items.
				256103 Practical - I	Students get sound knowledge in Sruthi and notes of songs
				256201 Tamil ishai&pakthiishai	Better understanding about the Carnatic being followed in Music
				256202 Carnatic Ragas	Known about the Musical Instrument items.
				256203 Practical -II	Obtain knowledge playing Western full songs
6.	Diploma Course in Music (Vocal)	Teacher & Eligible to join Higher Diploma		255101 Basic Concepts of Music Theory	Better understanding about the Carnatic being followed in Music
				255102 Music Instrument theory	Known about the Musical Instrument items.
				255103 Practical - I	Students get sound knowledge in Sruthi and notes of songs
				255201 Origin of carnatic music	Better understanding about the Carnatic being followed in Music
				255202 Tamil ishai& pakthiishai	Known about the Musical Instrument items.

				255203 Practical -II	Obtain knowledge playing Western full songs
7.	Diploma in Fine Arts Folk Dance and Folk Music	Teacher & Eligible to join		235101 Introduction of folkdance forms of tamilnadu	Students Will Able To Know The Culture And Art Form Of Folk People
				235102 Karagattam	Students Will Able To Know The Culture And Art Form Of Folk People
				235103 Kavadiaattam	Students Will Able To Know The Culture And Art Form Of Folk People
				235104 Marakkalattam	Students Will Able To Know The Culture And Art Form Of Folk People
				235105 Mayilaattam	Students Will Able To Know The Culture And Art Form Of Folk People
				235106 Kaalaiattam&puliyaattam	Students Will Able To Know The Culture And Art Form Of Folk People
				235201 Theory of folk instruments & folk dances	Students Will Able To Know The Culture And Art Form Of Folk People
				235202 Dummy horse dance	Students Will Able To Know The Culture And Art Form Of Folk People
				235203 Oyilaattam&thevarattam	Students Will Able To Know The Culture And Art Form Of Folk People
				235204 Pariyattam&naiyandimelam	Students Will Able To Know The Culture And Art Form Of Folk People
				235205 Kummiyattam&kaliyalaatam	Students Will Able To Know The Culture And Art Form Of Folk People
				235206 Folk theatre	Students Will Able To Know The Culture And Art Form Of Folk People

8.	DIPLOMA IN COGNITIVE SCIENCE EDUCATION	<p>1. Acquired knowledge about cognitive science</p> <p>2. Familiar with research on human cognitive development.</p> <p>3. Understood the mind and its processes</p> <p>4. Became aware of one's own mental processes and how that awareness can lead to becoming a more</p>	<p>1. Identify , analyze , and evaluate cognitive processes.</p> <p>2. Acquainted with theories of human cognitive development.</p> <p>3. Gained a valuable perspective on cognition and learning.</p> <p>4. Understood</p>	<p>Course Code: 717101 Foundation of Cognitive Science</p>	<p>1. Explain about basic principle of cognitive science.</p> <p>2. Discuss about cognitive and its related mental process.</p> <p>3. Describe the sensory process and the concept of cognition.</p> <p>4. Identify Neurological diseases.</p> <p>List out the core areas of cognition.</p>
				<p>Course Code: 717102 Cognitive Neuro Science</p>	<p>1. Express the theoretical views of human cognitive development.</p> <p>2. Differentiate the cognition and meta cognition and neuro cognition</p> <p>3. Aware of one's own mental processes and how that awareness can lead to become a more effective problem-solver.</p> <p>4. Identify, analyze, and evaluate</p>

		effective problem-solver.	the knowledge and functions of cognition, meta cognition and neuro cognition 5. Apply innovative strategies to promote learners' cognitive abilities.		cognitive processes
9.	DIPLOMA IN GANDHIAN THOUGHT	1. Got motivated to comprehend and	1. Gained a good understanding	Course Code: 716101 Life of Mahatma Gandhi	1.Explain the students with the life and works of Mahatma Gandhi. 2.Enable the

		<p>adhere to the Gandhian principles in life.</p> <p>2.Explored the opportunities of continuing higher education in Gandhian and Peace studies.</p> <p>3.Widened the scope of the learners for further research, training and career opportunities in economic, social,</p>	<p>on the life, philosophy and methodology of Mahatma Gandhi.</p> <p>2.Update current trends and events in the light of the Gandhian philosophy;</p> <p>3.Developed in-depth knowledge in the area of Peace and</p>		<p>students to recognize Gandhi as a revolutionary leader.</p> <p>3. How Gandhi transformed from a lawyer to a Mahatma.</p> <p>4.Ability to enable the students to analyze the impact of religions on Gandhiji's life and his early age.</p> <p>5. To enable the students to understand the experiences and experiments of Gandhi in South Africa.</p>
				<p>Course Code: 716102</p> <p>Philosophical Ideals of Mahatma Gandhi</p>	<p>1.Acquaint the students with the life and works of Mahatma Gandhi.</p> <p>2.Enable the students to recognize Gandhi as a revolutionary leader.</p> <p>3.Make them understand how Gandhi transformed from a lawyer to a</p>

	gender, political, environmental and sustainable development issues. 4.Developed capacity to apply Gandhian views and philosophies in real life situations.	Conflict Resolution. 4.Developed reflective thinking to find relevance of Gandhian Philosophy.		Mahatma. 4.Enable the students to analyze the impact of religions on Gandhiji's life and his early age. 5.Enable the students to understand the experiences and experiments of Gandhi in South Africa. Explain the students with the role played by Mahatma Gandhi in the Freedom Movement.
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