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THRISSUR, KERALA - 680 001

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Certificate

This is to certify that the following data provided includes the list of courses which have relevance to the local, national, regional and global needs addressed in the curriculum for all programme.
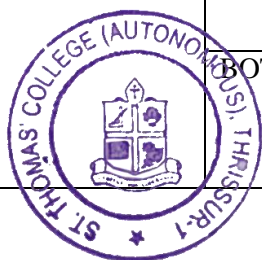
Principal
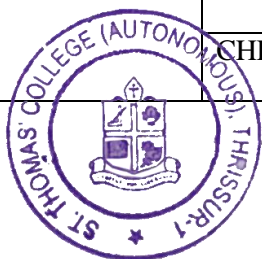St. Thomas College (Autonomous)
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1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs

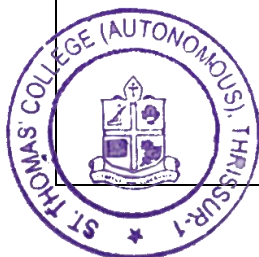| Programme Name	Course Code	Title of Course	Need - Local/National/ Regional/Global	Description about the need addressed
B.Sc Botany	BOT2B02T	Microbiology, Mycology, Lichenology and Plant Pathology	National	To learn about microbes and their utilization for developing novel antibiotics
	BOT2C02 T	Cryptogams, Gymnosperms and Plant Pathology	Local	To study the local plant diseases and their etiology and control measures
	BOT4B04T	Methodology and Perspectives in Plant Science	National	To understand the principle and application of instruments used in biological research
	BOT5B08T	Tissue Culture, Horticulture, Economic Botany	Local	To understand the principle and techniques of improving horticultural plants
	BOT6B10T	Genetics and Plant Breeding	Global	To study genes and their mode of expression
	BOT6B11T	Biotechnology, Molecular Biology and Bioinformatics	Global and National	To understand the mechanism of synthesizing rDNA to solve genetic problems; Basic understanding of biomolecules and its significances in biological sciences ; To understand the mechanism of genetic engineering and plant tissue culture
	BOT6B13T	Environmental Science	Global, National and Regional	To understand about the environment, climate change, challenges and to create awareness about environment protection
	BOT5D02	Applied Botany	Local	The preparation and application of organic manures locally
M.Sc Botany	BOT1C01	Phycology, Bryology, Pteridology and Gymnosperms	Global and National	To understand about the economic importance of Gymnosperms; To gain knowledge about the distribution of living Gymnosperms in India
	BOT1C02	Mycology & Lichenology, Microbiology and Plant Pathology	Regional and National	Enables to identify different types of fungal infections in plants. Economic importance can also be known of each group which helps in

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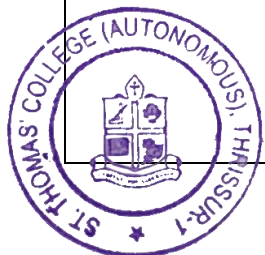|				conservation and exploitation; To formulate and prepare plant based pesticides to control the agricultural pests
	BOT2C04	Cell Biology, Molecular Biology and Biophysics	Global and National	To study the energy transfer mechanism in living organism and to understand bioinstruments and their applications and to identify the basic chromosme number
	BOT2C05	Cytogentics, Genetics, Biostatistics, Plant Breeding and Evolution	Global and National	To study the genes, their mode of expression and to develop knowledge on propagation techniques of plants; to have basic knowledge in statistical analysis
	BOT2C06	Plant Ecology, Conservation Biology, Phytogeography and Forest Botany	Regional, National and Global	To understand the climate change at global level to take measure to mitigate; For creating awareness about global and national concerns on environment; Awareness about the environmental conditions for conservation and betterment is provided; To gain knowledge about the various forests and products available from forests with special reference to Kerala and India
	BOT3C08	Angiosperm Morphology, Taxonomy and Plant Resources	Regional, National and Global	Creates awareness about the economically important plant species, its exploitation as well as about medicinal plants used in pharmaceutical industry and helps to identify different plant species
	BOT3C09	Biotechnology and Bioinformatics	Regional, National and Global	To synthesize bionanoparticles to control pathogens of plants and animals; Provides knowledge about the latest technology for development with emphasis on practices in India and Kerala; Provides knowledge about the latest technology which can be applied in many fields of medicine, research etc
B Sc Chemistry	CHE5B06	Inorganic Chemistry - III	National	Analytical chemistry, pollution and solid waste management issues are addressed
	CHE5B08	Physical Chemistry-II	Global	Molecular spectroscopy allows structural illucidatin of compounds

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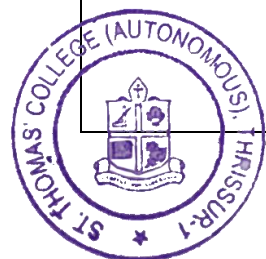|	CHE6B12	Advanced And Applied Chemistry	Global and Local	Green chemistry, supramolecular and combinatorial chemistry; Fertilizers
	CHE6B13(E1)	Industrial Chemistry	National	Chemistry of various industrial process
	CHE6B13(E2)	Polymer Chemistry	National	Polymer for practical applications
	CHE6B13(E3)	Medical and Environmental Chemistry	National	Different drugs for applications
	CHE5D02	Chemistry in Daily Life	Local	Chemicals used for daily life
M Sc Chemistry	CHE1CO3	Structure and Reactivity of Organic Compounds	National	Synthesis of asymmetric drugs
	CHE3CO9	Molecular Spectroscopy	Global	Structural illucidation of molecules
	CHE4C12	Instrumental Methods of Analysis	Global	Analysis of unknown compounds
	CHE4EO4	Petrochemicals and Cosmetics	Global	Awareness about petrochemicals
	CHE4EO5	Industrial Catalysis	National	Awareness about catalytical operations
	CHE4E06	Natural Products and Polymer Chemistry	National	Polymer characterization and applications
B Com	BCM1B01	Business Management	Local and Regional	Understand the emerging concepts in manangement and its application level in different sectors of management. It also describes Corporate Social Responsibility and analyse steps in the implemention of CSR activities
	BCM2B02	Financial Accounting	National and Global	Compare and contrast IFRS and Ind AS.
	BCM3B03	Business Regulations	Local	Create an awareness regarding the rights and duties of consumers under consumer Protection Act 1986
	BCM4B05	Cost Accounting	Local and Regional	Analyse and evaluate information for cost ascertainment, planning, control and decision making.
	BCM4B06	Corporate Regulations	Local and Regional	Understand corporate law and create awareness regarding the importance of corporate governance in the manangement of organizations.
	BCM5B07	Accounting for Management	Local and Regional	Assess how cost-volume - profit are related and use CVP analysis as a

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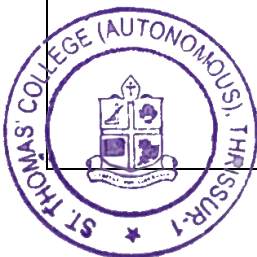|				planning, control and decision making aid
	BCM5B08	Business Research Methods	Local	Identify research design and recognise various scaling techniques there by helping in creation of research report.
	BCM6B12	Income Tax And GST	Local	Understand basic concepts of GST and its implication on individuals and business with regard to taxation also helps to understand GST return filing system.
	BCM5B10	Financial Markets and Services	Local	Understand the concepts and basics of various financial services and examine the role of regulatory instittions SEBI and RBI
	BCM6B13	Auditing and Corporate Governance	National	Understand the concept, theories, models and benefits of corporate governance and appraise the corporate governance problems in global and Indian context
	BCM6B15	Financial Management	Local	Understand about decisions and process of financial management in business unit and helps to evaluate investment, financial and dividend policy framework.
	BCM5B11	Fundamentals of Investments	Local	Analyse portfolios by calculating portfolio risk and return and evaluate the investor protection framework.
	BCM1C01	Managerial Economics	National	Analyse the profile of Indian and Kerla economy and evaluate the performance of India and Kerala in Global scenario
	BCM5B10	Banking Services Management	Local	Acquire required knowledge and skill for practical banking operations.
	BCM3A12	Professional Business Skills	Local	Describe the ethical and legal considerations in business analytics and compare and contrast the Digital Marketing space with traditional business.
	BCM5B11	Insurance Management	Local	Understand the process of risk - return analysis and strategies for better investment decisions and familiarize the taxability calculations of insurance plans and cost management of Insurance

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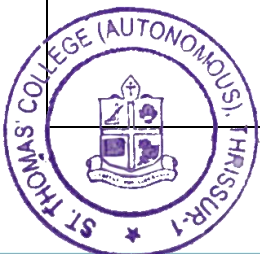|	BCM4A13	Entrepreneurship Development	Regional	Create awareness on setting up an industrial unit through generation of ideas, market demand analysis and feasability studies. Prepare and design the project report for establishment of an enterprise
	BCM3C03	Human Resource Management	Local	Develop and assess one's own competencies towards a career in HRM
	BCM6B15	Risk Management and Insurance	Local	Identify various risk management tools and understand the retirement planning and annuities
	BCM4A14	Banking and Insurance	Regional	Apply the procedure for the application and activation of M-banking and telebanking and also describes the concept of insurance as a social security tool for economic development.
	BCM2C02	Marketing Management	Local	Analyse recent trends in marketing and prepare marketing plan of products or services
M Com	MCM1C01	Business Environment & Policy	Regional	Analyse the changing dimensions of business environment and Identify the issues related with environment and its impact on business.
	MCM2C08	Advanced Strategic Cost Accounting	Local	Apply cost accounting concepts, tools, techniques and principles in managerial decision making process.
	MCM1C04	Management Theory and Organisational Behaviour	Regional	Understand the concepts of group dynamics and its application in an organisation and society.Identify organisational culture and apply organisational development techniques for managing organisational relationships
	MCM2C09	International Business	National	Analyse the strategic development of International Business and its impact on Indian economy.
	MCM1C02	Corporate Governance And Business Ethics	Regional	Evaluate the corporate governance strategies adopted by Kerala based listed companies and evaluate ethical isuues, conflicts of interest and insider trading and create a system that has strong internal control to prevent corporate frauds

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	MCM2C10	Management Science	Regional	Enabling the students to minimise the costs incurred in the firm by way of deciding the most optimum choices of production, schedule of distribution of goods and assignment of resources optimally and helps them to schedule the production process most optimally, withouthampering the preceding or succeeding activities and with the most optimum time schedule.
	MCM3C12	Income Tax : Law , Practice And Tax Planning I	Local	Compute and develop tax plans relating to income under five heads applicable to individuals and HUF and also develops tax plans relating to clubbing and aggregation of Income , set off and carry forward of losses. Determines the procedure for assessment of Income tax
	MCM3C11	Financial Management	Local	Prepare optimum capital structure and helps to estimate working capital requirements
	MCM3EF02	Financial Markets And Institutions	Local	Understand the inter-linkages and regulatory framework with in which the Financial markets and systems operates in India
	MCM4C15	Income Tax Law , Practice And Tax Planning II	Regional	Creation of tax plans relating to setting up of Business in SEZ, EPZ,EOUS and infrastructure sector
	MCM4EF04	Advanced Strategic Financial Management	Local	Examine shareholder value creation and application in managerial decisions
B Sc Computer Science	BCS1B01	Computer Fundamentals and HTML	National, Global	To create inovative Web Pages
	BCS2B02	Problem Solving Using C	Global	To develop applications using C language
	BCS3B04	Data Structures using C	Global	Comprehend the data structures with their implementationand analyse the various algorithm design strategies
	BCS5B07	Computer Organization and Architecture	National	To understand the key skills of constructing cost-effective computer systems.
	BCS5B08	Java Programming	Global	To develop industry oriented applications

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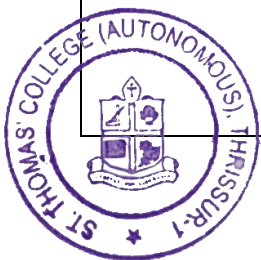|	Code	Course	Scope	Objective
	BCS5B09	Web Programming Using PHP	Local, National, Global	To develop web applications using PHP and transfer data between client and server globally
	BCS5B10	Principles of Software Engineering	Global	To design, develop and test any software with various tools and technologies.
	BCS5D02	Web Designing	Global	To design and develop web sites
	BCS6B16D	Computer Graphics	National, Local	To meet the requirementsof appearing in competitive exams
	A11	Python Programming	Local, National, Global	To develop GUI applications, websites and web applications
	A12	DataCommunication & Optical Fibres	Global	To gain the knowledge of data communication and optical fibre technologies
	A13	Microprocessors Architecture & Programming	National, Local	To meet the requirementsof appearing in competitive exams
	A14	Sensors & Transducers	Global	To gain the knowledge of various Sensors
	BCS4B05	Database Management System and RDBMS	Global	To analyze and utilize data effectively and to define databases for various applications
	BCS5B07	Computer Organization and Architecture	National	To understand the key skills of constructing cost-effective computer systems.
	BCS6B11	Android Programming	Global	To enble the development of mobile applications
	BCS6B12	Operating Systems	National	To meet the requirementsof appearing in competitive exams
	BCS6B13	Computer Networks	National, Local	To meet the requirementsof appearing in competitive exams
M Sc Computer Science	CSS1C01	Discrete Mathematical Structures	National	To meet the requirementsof appearing in competitive exams
	CSS1C02	Advanced Data Structures	National	Comprehend the data structures with their implementationand analyse the various algorithm design strategies
	CSS1C03	Theory of Computation 0	National	To meet the requirementsof appearing in competitive exams
	CSS1A01	Introduction to Research	National	To enhance the ability of students for research
	CSS2C06	Design and Analysis of Algorithms	Global	To formulate new solutions for programming problems or improve existing code using algorithms
	CSS2C07	Operating System Concepts	National	To meet the requirementsof appearing in competitive exams

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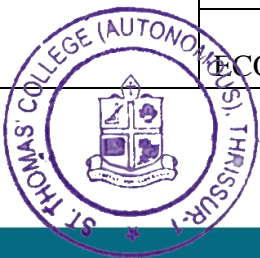|				
	CSS2C08	Computer Networks	National	To meet the requirementsof appearing in competitive exams
	CSS2C10	Principles of Software Engineering	Global	To design, develop and test any software with various tools and technologies.
	CSS3C11	Advanced Database Management System	Global	To define databases for various applications
	CSS3C12	Object Oriented Programming Concepts	Global	To develop industry oriented applications
	CSS3C13	Principles of Compilers	National	To meet the requirementsof appearing in competitive exams
	CSS3E01a	Computer Graphics	National, Local	To meet the requirementsof appearing in competitive exams
	CSS3E02f	Data Warehousing and Data Mining	National	Understand various data pre-processing techniques such as data cleaning, integration,reduction, transformation and various mining techniques
BA Economics	ECO1 B01	Microeconomics I	National, Regional and Local	Microeconomic concepts can be applied to analyze real-life situations
	ECO2 B02	Macroeconomics I	National & Global	Aggregate variables - national income, employment, price level and investment
	ECO3 B03	Quantitative Methods for Economic Analysis I	National	Meaning of statistics and discribtion of data ,correlation and regression
	ECO3 B04	Microeconomics II	National	Market analysis
	ECO4 B05	Quantitative Methods for Economic Analysis II	National	Index number and vital statistics.
	ECO4 B06	Macroeconomics II	National & Global	ISLM Model, inflation & Unemployment, Trade cycles, fiscal & Monetary policies
	EC05 B07	Fiscal Economics	National & Regional, Local	Module IV: Public Debt and Budget in India, Module V: Federal and local finance in India
	ECO5 B08	Indian Economic Development	National & Regional,Local	Module IV: Current Challenges Facing the Indian Economy, Module V: Kerala's Economic

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				Development
	ECO5 B09	Economics of Capital Market	National	Share marketing system
	ECO5 B10	Mathematical Economics	National & Global	Developing critical thinking, and problem- solving, empirical research and model building capabilities.
	ECO6 B11	Financial Economics	National	The role of finance in the operation of an economy
	EC06 B12	International Economics	National & Global	Trade and financial relations
	ECO6 B13	Development of Economic Thought	National & Global	Different school of thought to formulate theories
	ECO6 B14	Economics ofGrowth and Development	Global, National &Regional, Local	An interrelated to approach to resource use, therelationship between man and man and man and nature.
	ECO6 B18	Urban Economics	National & Regional	Analyse the current policy issues and programmes on urban economic growth, development and urbanization in India
	ICP1(2) CO1	Indian Constitutionand Politics: Basic Features and Governmental Structures.	National	To convey fundamental rights , duties and DPSPof Indian constitution,Recall central and State policies, enable to make use of legal directions indeveloping solutions to societal issues.
	ICP4 (3)CO2	Indian Constituion and Politics: Federalism, Decentralisation and Political Dynamics	National	To impart knowledge about federal system of nation, Socio-economic rights , rights of sexual minorities and minority sections
MA Economics	ECO1C01	Microeconomics: Theory and Applications I	National	Analysis of asymmetric information in variousmarkets
	ECO1C02	Macroeconomics: Theories and	National & Global	Provides analysis of National monetary & fiscal policies,

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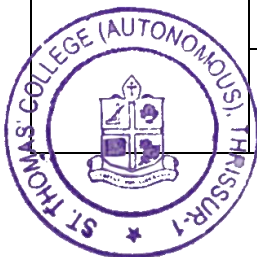iqac@stthomas.ac.in

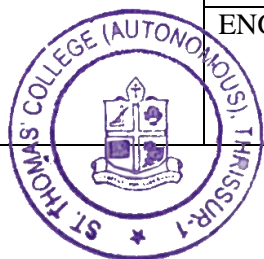|			
	Policies I		consumption & investment function andbusiness cycles relevant in National & Global level.
ECO1C03	Indian Economy: Problems and Policies	National & Regional,	Module V: Kerala Economy
ECO2C05	Microeconomics: Theory and Applications II	National & Global	General Equilibrium analysis
ECO2C06	Macroeconomics: Theories and Policies II	National & Global	Keynesian Economics , Real Business cycles
ECO2C07	Public Finance: Theory and Practice	National & Regional,	Module V: Indian Public Finance
ECO3C09	International Trade	National & Global	International trade & development, trade policies, economic integration
ECO3C10	Growth and Development	National & Global	Different Growth models, development of developed and developing countries
ECO3C11	Basic Econometrics	National & Global	Simple and multiple regression analyis ,modelSpecification, Hypothesis testing, Dummy variables
ECO3E01	Banking: Theory and Practice	National & Regional, Global	Module IV Banking Sector Reforms in India & Module V International Banking
ECO4C12	International Finance	National & Global	Balance of payment of countries, foreign exchange markets, capital flows, Presentmonetary system
ECO4C13	Financial Markets	National & Regional, Global	Module V: Global Financial Markets & Module II: Money Market
ECO4E04	Demography	National	Analysis of Sex, Age Structure, Fertility, Nuptiality and Mortality in Population
ECO4E08	Mathematical Economics	National &	Market conditions, Input output analysis, Linearprogramming ,

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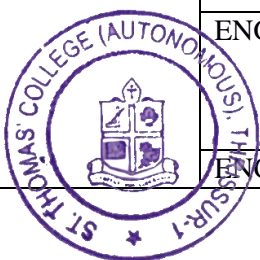|			Global	Theory of games, Decision making
B.A. History & English Language and Literature of Equal Status	ENG1A01	Litmosphere : The worlds of Literature	National & Global	To develop the ability to appreciate life and literature and to cultivate an interest in society and culture
	ENG1A02	Functional Grammer and communication in English	Global	To describe the use of appropriate language through the understanding of the sentence patterns in English.
	ENG2A03	Readings from the fringes	National	To inculcate and apply the concepts of democracy and freedom in life and understand the basic tenets of our constitution
	ENG2A04	Readings on Kerala	Regional and local	To enable the students to read and critically appreciate the different varieties of Kerala literature, writings and films. To read and understand the diversity of Malayalam literature and understand its distinctions
	ENG3A05	Readings on Indian Literature	National	To enable the students to read and critically appreciate the different varieties of Indian literature, writings and films and to read and understand the diversity of Indian writings and comprehend its nuances
	ENG4A06	Songs and stories of our world	National & Global	To enable students to read, appreciate, and critically respond to literature of different cultures and to introduce a variety of literary texts from around the world from ancient to contemporary times.
	ENG1B01	Introducing Literature	Global	To improve reading & writing skills in English,and literary pieces to reflect on various societal contexts and values
	ENG2B02	Appreciating Poetry	Global	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts and values
	ENG3B03	Appreciating Prose	Global	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts

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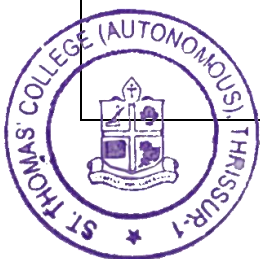|				and values
	ENG3B04	English Grammar &Usage	Global	To learn more about grammar and syntax of English language and to improvise the use of it.
	ENG4B05	Appreciating Fiction	Global	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts and values
	ENG4B06	Literary Criticism	Global	To study various crtical theoris and approaches and thus to improve critical percepion and equip the students to approach a topic/theme/context from various perspectives
	ENG5B23	Appreciating Drama	Global	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts and values
	ENG5B08	Literary Theory	Global	To study various crtical theoris and approaches and thus to improve critical percepion and equip the students to approach a topic/theme/context from various perspectives
	ENG5B09	Language & Linguistics	Global	To study the evolution of English language and to have a better understanding and use of it.
	ENG5B10	Indian Writing in English	Global	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts and values
	ENG6B11	Voices of Women	Global	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts and values, especilly the ones discussing a broader and more humane approach on gender sensitivity.
	ENG6B12	Classics of World Literature	Global	To familiarise various classical works from different cultural contexts and to develop a more tolerant and broad attitude to life and fellow beings
	ENG6B20	Shakespeare	Global	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts and values, especially from the

				classical works of Shakespeare.
	ENG6B21-22	Project/ Research Methodology	Global	To equip the students to approach a topic/theme/context from various perspectives and to write a project report
	HIS1 B01	Trends in Historiography	Global	To learn about different trends in hostorical writing in different ages
	HIS2B02	Indian Historiogaphy	National	to develop concepts and ideas of Indian history without any bias
	HIS3 B04	Indian History 1	National	To provide a broad historic outline about the process of socio political formations in the north and south India upto 1300 CE
	HIS4B06	Indian History 2	National	To explicate the nature of state and society in Medieval India
	HIS4B20	Gender Studies	National	To inroduce the area of gender studies
	HIS5B08	Indian History 3	National	To inculcate a right understanding of the contours of India's struggle for Independence
	HIS5B09	Kerala History 1	Regional	To provide an overall picture of the state and society in pre modern Kerala upto 1800 CE
	HIS6B11	Indian History 4	National	To define a pluralistic society and it's relationship to our democratic principle
	HIS6B12	Kerala History 2	Regional	To understand the circumstances for the colonial intervention in Kerala
	HIS6B15	Dissertation	Local	To create an awareness about locality
M.A. English Language & Literature	ENG1CO1	British Literature from Chaucer to 18th century	Global	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts and values
	ENG1CO2	British Literature 19th century	Global	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts and values
	ENG1CO3	History of English Language	Global	To study the evolution of English language and to have a better understanding and use of it.
	ENG1CO4	Indian Literature in English	Global	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts and values
	ENG2 CO5	Twentieth century	Global	To improve reading & writing skills

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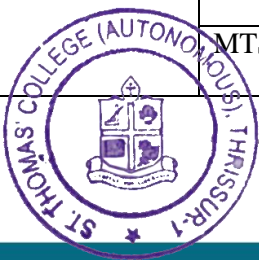|				
		British Literature up to 1940		in English, and literary pieces to reflect on various societal contexts and values
	ENG2 CO6	Literary Criticism and Theory - Part 1(up to New Criticism)	Global	To study various crtical theoris and approaches and thus to improve critical percepion and equip the students to approach a topic/theme/context from various perspectives
	ENG2 CO7	American Literature	Global	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts and values
	ENG2 CO8	Postcolonial writings	Global	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts and values
	ENG3 CO9	Twentieth century British Literature post 1940	Global	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts and values
	ENG3C10	Literary criticism and theory - Part 2	Global	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts and values
	ENG3 E06	Teaching English	Global	To improve reading & writing skills in English, and to familiarise themselves with various techniques adoped in teaching Englsih language.
	ENG3 E07	World Drama	Global	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts and values
	ENG4 C11	English Literature in the 21st Century	Global	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts and values
	ENG4 C12	Dissertation / Project	Global	To equip the students to approach a topic/theme/context from various perspectives and to write a project report
	ENG4 E12	Literature and Ecology	Global	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts and values in general and the need

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				to have an eco-friendly life for better sustenance of the present and future.
	ENG4 E18	Malayalam Literature in English Translation	Regional	To improve reading & writing skills in English, and literary pieces to reflect on various societal contexts and values. Since the topics are literary works from the regional context translated into English from Malayalam, this paper,in addition facilitates not only better understanding of the regional thoughts but also integrating values and ideas from other contexts into the local one - and thus improvising it.
BA/B Sc/B Com	HIN 1 A07(1)	Prose and Drama	Local/National/ Regional	To improve reading and writing skills in Hindi and to become aware about different social contexts and life
	HIN 1 A07(2)	Prose Forms in Hindi Literature	Local/National/ Regional	To improve reading and writing skills in Hindi and to become aware about different social contexts and life
	HIN 1 A07(3)	Prose and One Act Plays	Local/National/ Regional	To improve reading and writing skills in Hindi and to become aware about different social contexts and life
	HIN 2A08(1)	Grammar Correspondance and Translation	National/ Regional/Global	To improve reading and writing skills in Hindi and to become aware about different social contexts and life
	HIN2 A08(2)	Poetry Correspondence and Translation	National/ Regional/Global	To improve reading and writing skills in Hindi and to become aware about different social contexts and life
	HIN2 A08(3)	Poetry and Short Stories	Local/National/ Regional	To improve reading and writing skills in Hindi and to become aware about different social contexts and life
	HIN3 A09	Poetry in Hindi	Local/National/ Regional	To improve reading and writing skills in Hindi and to become aware about different social contexts and life
	HIN3 A10	Novel and Short Stories	Local/National/ Regional	To improve reading and writing skills in Hindi and to become aware

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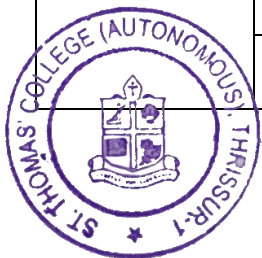|				about different social contexts and life
BA/B Sc/B Com	MAL2 A08(01)	Malayalasahithyam 2	Local/National/Regional/Global	To develop reading and writing skill as well as to develop language skills necessary for employability and translation
	MAL2 A08(02)	Malayalasahithya Padanam 2	Local/National/Regional/Global	To develop reading and writing skill as well as to develop language skills necessary for employability and translation
	MAL 2A08(03)	Malayala Bhashayum sahithyavum 2	Local/National/Regional/Global	To develop reading and writing skill as well as to develop language skills necessary for employability and translation
	MAL3 A09	Malayalasahithyam 3	Local/National/Regional/Global	To develop reading and writing skill as well as to develop language skills necessary for employability and translation
	MAL4 A10	Malayalasahithyam 4	Local/National/Regional/Global	To develop reading and writing skill as well as to develop language skills necessary for employability and translation
BA/B Sc	SKT 1 A 07 (01)	Kavya literature and applied grammer	National	To develop language skill
	SKT 2 A 08(01)	Prose and applied grammar	National	To develop language skill
	SKT 3 A 09(01)	Drama and Alankara	National	To develop language skill
	SKT 4A 10(01)	History of sanskrit literature and Kerala culture	National	To develop language skill
B Sc Mathematics	MTS1B01	Basic Logic and Number Theory	Global	Helps students to get a proper foundation to mathematical logic and basic number theory
	MTS1C01	Mathematics-1	Global	Ability to understand both concrete and abstract problems
	MTS2B02	Calculus of Single variable-1	Global	Helps students to get basic ideas in Calculus
	MTS2C02	Mathematics-2	Global	Ability to accurately organize, analyze and interpret data and to work inependently and on a team
	MTS3B03	Calculus of Single variable-2	Global	To study Sequences and Series
	MTS3C03	Mathematics-3	Global	Mathematically formulate physical problems and solve it

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	MTS4B04	Linear Algebra	Global	To study Vector space and matrix theory
	MTS4C04	Mathematics-4	Global	Mathematically formulate physical problems and solve it
	MTS5B05	Theory of Equations and Abstract Algebra	Global	The idea of structural similarity
	MTS5B06	Basic Analysis	Global	To Improve ability to analize a problem
	MTS5B07	Numerical Analysis	Global	wildly using In research and engineering field
	MTS5B08	Linear Programming	Global	To solve problems in Operations research
	MTS5D01	Applied Calculus	Global	Basics of mathematics for the students in other branch
	MTS5D02	Discrete Mathematics for Basic and Applied Sciences	Global	Helps students to get a basic ideas in mathematical logic
	MTS5D03	Linear Mathematical Models	Global	To study basic matrix operations and solving linear programming problem
	MTS6B10	Real Analysis	Global	Develop the skill of communicating mathematics in a logical way.
	MTS6B11	Complex Analysis	Global	To investigate functions of complex numbers
	MTS6B13	Differential Equations	Global	Method of separation of variable is a higher level of solving method and it has a application in heat and wave equation.
	MTS6B14(E01)	Graph Theory	Global	To study application of graph theory in real life
	MTS6B14(E02)	Topology of Metric spaces	Global	To construct topology using metric
	MTS6B14(E03)	Mathematical Programming with Python and Latex	Global	To prepare a document and to simplify complex software development
M Sc Mathematics	MTH1A01	Ability Enhancement Course	Global	Leads to enhance mathematical knowledge
	MTH1C01	Algebra- I	Global	Address various algebraic structures
	MTH1C02	Linear Algebra	Global	To understand geometric concepts such as planes in higher dimensions and perform mathematical

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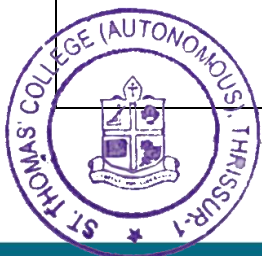|			operations
MTH1C03	Real Analysis I	Global	To develope ideas of Basic Topology, Continuity, Differentiability, Riemann Integral
MTH1C04	Discrete Mathematics	Global	To construct ideas in Graph Theory, Boolean Algebra and Automata
MTH1C05	Number Theory	Global	To investigate prime numbers and primality tests
MTH2A02	Technical Writing With LATEX	Global	Exposure to technical writing
MTH2A03	Scientific Programming With Scilab	Global	To design mathematical programs with Scilab
MTH2A04	Scientific Programming With Python	Global	To design mathematical programs with Python
MTH2C06	Algebra- II	Global	Solve some classical problems by Galois theory
MTH2C07	Real Analysis II	Global	To Construct ideas of Measure theory
MTH2C08	Topology	Global	To study surfaces
MTH2C09	ODE & Calculus Of Variations	Global	To solve differential equations and to find maxima and minima of functionals
MTH2C10	Operations Research	Local and National	Various quantitative tools in the business
MTH3C11	Multivariable Calculus & Geometry	Global	To study problems in geometry using calculus
MTH3C12	Complex Analysis	Global	understanding of power series expansion
MTH3C13	Functional Analysis	Global	To study the spaces of functions and the formulation of properties of transformations of functions
MTH3C14	Pde & Integral Equations	Global	Applications of PDE and integral transforms are wide in science and engineering. So advance topics are included.
MTH3E01	Coding Theory	Global	To develop cyber security sytems
MTH3E02	Cryptography	Global	To develop cyber security sytems
MTH3E03	Measure & Integration	Global	To study generalization of integration
MTH4C15	Advanced Functional Analysis	Global	To study the spaces of functions and the formulation of properties of

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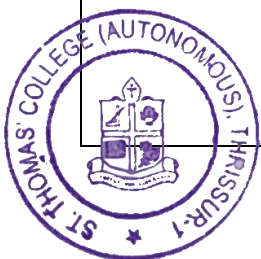|				transformations of functions. To analyze the spectrum of operators.
	MTH4E05	Advanced Complex Analysis	Global	Elaborate study on duals and transposes
	MTH4E06	Algebraic Number Theory	Global	To the idea of four square theorem and Kummers theorem
	MTH4E07	Algebraic Topology	Global	To study topological spaces using algebra
	MTH4E09	Differential Geometry	Global	To study problems in geometry using calculus
	MTH4E10	Fluid Dynamics	Global	To study about the streaming motions
	MTH4E11	Graph Theory	Global	application of graph theory in computer science
	MTH4E12	Representation Theory	Global	Helps the student to study abstract algebraic structures by representing their elements as linear transformations of vector spaces
	MTH4E13	Wavelet Theory	Global	Applications of Mathematics in signal transmission. Increases employability.
B Sc Physics	PHY1 B01	Methodology of science and basic mechanics	National	To equip the students to participate in reasearch activities in various fields of science.
	PHY4 B04	Electrodynamics	National	To understand and work with the electrical and magnetic associated fields.
	PHY5 B06	Computational physics	Global	To understand how to write the PYTHON computer programming language
	PHY5 B09	Electronics	Global	To design and work with the electronic circuits
	PHY6 B13	Relativistic mechanics and astrophysics	Global	To equip the students to work in the astrophysics labs across the world
	PHY5 D01(1)	Non conventional energy sources	Global	To teach the students about the importance of non conventional energy resources and its global need for development
	PHY6 B14	Nanoscience and tecnology	Global	To equip the students to work in the nanoscience labs across the world
M Sc Physics	PHY1C03	Electrodynamics and Plasma Physics	Global	To study the fundamental communication techniques used in the potential wireless communication applications and

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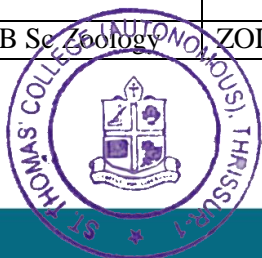|				join for the research areas
	PHY1C04	Electronics	Global	By studying the fundamentals of electronic circuits and devices, develop and design next generation electronic devices
	PHY2 C05	Quantume mechanics	Global	To lead the students into research activities after studying the fundamentals of quantum mechanics
	PHY2 C08	Computational Physics	Global	The Python programming language is an important tool in the scientific world. It will help the students to write computer programmes for various needs of the new gen world
	PHY3 C11	Solid state physics	Global	This course helps to join the research institutes which deals with the material science and nano science.
	PHY4 E20	Microprocessors, Micro Controllers and Applications	Global	This course helps the students to design microcontroller based programmes which is used in the current technology of IoT.
B Sc Statistics	STA1B01	Official Statistics and Probability	Global	Understand the basic idea of official statistics and probability
	STA2B02	Bivariate Random Variables and Probability Distributions	Global	Understand and apply the concepts of bivariate random variables
	STA3B03	Statistical Estimation	Global	Explain the basic ideas of statistical estimation
	STA4B04	Testing of Hypothesis	Global	Explain the basic ideas of statistical problems of testing
	STA5B05	Mathematical Methods in Statistics	Global	Understand the basic idea of real analysis
	STA5B06	Sample Surveys	Global	Understand the basic idea of sampling methods
	STA5B07	Linear Regression Analysis	Global	Understand the basic idea of regression modelling
	STA5B08	Statistical Computing	Global	Understand the basic idea of R programming
	STA5D01	Economic Statistics	Global	Understand components and models of time series data and index numbers
	STA5D 02	Quality Control	Global	Understand and apply control charts

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				for variables and attributes
	STA5D 03	Basic Statistics	Global	Understand the concepts of random experiments and definitions of probability
	STA6B09	Time Series and Index Numbers	Global, Local,National, Regional	Understand the basic idea of different components of time series and index numbers
	STA6B10	Design of Experiments	Global, Local,National, Regional	Understand the basic idea of experimental design
	STA6B11	Population Studies, Actuarial Science and Vital Statistics	Global, Local,National, Regional	Recognize sources of vital statistics in India and Understand the fundamentals of insurance
	STA6B12	Operations Research and Statistical Quality Control	Global	Understand and apply linear programming problem and fundamental concept of control charts and causes of variations
	STA6B13	Project Work	Local, Regional	Skill development
	STA6B16(E)	Reliability Theory	Global	Understand the type of ageing properties of lifetime distribution
	PSY 1C 01	Descriptive Statistics	Global	Equip the students with the concepts of basic Statistics
	PSY 1C 02	Regression Analysis and Probability	Global	Create awareness about probability and random variables
	PSY 1C 03	Probability Distributions and Parametric Tests	Global	Apply the uses of Statistical test.
	PSY 1C 04	Statistical Techniques for Psychology	Global	Understand the applications of Statistics in different areas of Psychological studies
	STA 1C 01	Introductory Statistics	Global	Describe data and apply different statistical tools
	STA 2C 02	Probability Theory	Global	Understand the concepts of random experiments and probability
	STA 3C 03	Probability Distributions and Sampling Theory	Global	Understand different probability distributions and sampling
	STA 4C 04	Statistical Inference and Quality Control	Global	Explore the concepts of statistical interference and quality control
M.Sc. Statistics	MST1C01	Analytical Tools for Statistics – I	Global	Understand and apply the functional properties of Multivariable functions and its applications in statistics
	MST1C02	Analytical Tools for Statistics – II	Global	Understand the basics of linear algebra tools

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	MST1C03	Distribution Theory	Global	Understand the behavior of various probability distributions and applications
	MST1C04	Probability Theory	Global	Understand the idea of probability theory and applications
	MST1C05	Statistical Computing – 1	Global	Understand the idea of data analysis
	MST1A01	Ability Enhancement Course	Global	Skill development
	MST2C06	Design and Analysis of Experiments	Global, Local, National, Regional	Understand the basic principles of experimental design
	MST2C07	Estimation Theory	Global	Understand the concepts of estimation theory
	MST2C08	Sampling Theory	Global, Local, National, Regional	Understand and apply different sampling methods
	MST2C09	Testing of Statistical Hypotheses	Global	Understand and apply parametric and non parametric tests
	MST2C10	Statistical Computing-II	Global	Understand the idea of data analysis
	MST2A02	Professional Competency Course	Global	Skill development
	MST3C11	Applied Regression Analysis	Global	Illustrate the concepts of regression models and checking the model adequacy
	MST3C12	Stochastic Processes	Global	Understand the concept and applications of different process
	MST3E 05	Lifetime Data Analysis	Global	Discuss different lifetime modeling methods
	MST3E 10	Statistical Quality Control	Global	Describe and apply the various statistical quality control tools
	MST3C13	Statistical Computing-III	Global	Understand the idea of data analysis
	MST4C14	Multivariate Analysis	Global	Understand the multivariate random variables and its applications
	MST4E 02	Time Series Analysis	Global	Discuss the fundamentals and components of time series and its applications
	MST4C15	Project/Dissertation	Global	Skill development
	MST4C16	Statistical Computing-IV	Global	Understand the idea of data analysis
B Sc Zoology	ZOL1B01T	Animal Diversity	Local	To know and identify invertebrate

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		Nonchordata I		fauna
	ZOL2B02T	Animal Diversity Nonchordata II	Local	To know and identify invertebrate fauna
	ZOL3B03T	Animal Diversity Chordata I	Local	To know and identify the vertebrate fauna
	ZOL4B04T	Animal Diversity Chordata II	Local	To know and identify the vertebrate fauna
	ZOL6B12T	Enivronmental and Conservation Biology	Global	Students can understand their surrounding environment and also the interactions between different communities in an ecosystem including humans.
	ZOL6B13T	Ethology, Evolution and Zoogeography	Global	Students can understand the different patterns of Animal beahviour,undersatnd the mystery behind the evolutionary process,get an idea about the distributionf animals throughout the globe.
	ZOL5B06T	Cell Biology and Genetics	Global	To know about the different components of cell and their role, and to understand the pattern of inheritance
	ZOL5B09T	Methodology in Science, Biostatistics and Bioinformatics	Global	Students can understand the different methodology in Science, application of Biostatistics in Research and get idea about the application informatics in Biological systems
	ZOL5D02	Nutrition, Health & Hygiene	Global	To know about the importance nutrition ,Health and Hygiene
	ZOL5B08T	Biochemistry and Molecular Biology	Global	Undertand the chemical molecules of life and their role in biological systems as well as the molecular mechanisms of life
	ZOL6B10T	Physiology and Endocrinology	Global	Students became aware about the physiological mechanisms of body and also the hormonal mechansims
	ZOL6B11T	Reproductive and Developmental Biology	Global	To know about the reproductive mechanism of organisms and their deveolpmental process and also about the different chemicals that can upset the developmental process thus can avoid their exposure in their life
	ZOL5B07T	Biotechnology,	Global	Students can understand the different biotechnological methods

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		Microbiology and Immunology		used in Animal science,also the microbial life.They also get idea about the immunological mechanisms in the Human body
	ZOL6B14(E)03T	Applied Entomology	Global	It gives an idea about the insect fauna ,and their interaction between humans and other organisms
	ZOL1CO1T	Animal Diversity and Wild Life Conservation	National	Students can understand different classes of organisms and know about the Wild life
	ZOL2CO2T	Economic Zoology	National	Students get an idea about the economical importance of different organisms
	ZOL3CO3T	Physiology and Ethology	National	Get basic idea of physiological mechanism of human body,behaviour patterns of animals and get awareness regarding the toxicology
	ZOL4C04T	Genetics and Immunology	Global	Students can understand the inheritance pattern and immunological mechanism of Human body
M Sc Zoology	ZOL1C01	Biochemistry & Cytogenetics	Global	Understand the chemical molecules of life and their interactions. Cytogenetics helps to understand the different mechanisms of of cell at molecular level
	ZOL1C02	Biophysics & Biostatistics	Global	Understand the principles and application of physics in biological systems
	ZOL1C03	Ecology & Ethology	Global	Students get idea about the ecological principles and concepts
	ZOL2C04	Physiology	Global	Students can undertsand the detailed physilogical mechanism of human body
	ZOL2C05	Molecular Biology	Golbal	To know about the molecular mechanisms in the cell such as Replication of DNA,Transcription,Translation etc.
	ZOL2C06	Systematics and Evolution	Global	Understand the classification of organisms and their evolution
	ZOL3C07	Immunology	Global	Students can understand the different immunological components of body and their mechanisms
	ZOL3C08	Developmental	Global	To know about the developmental

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		Biology and Endocrinology		processes of different groups of organisms
	ZOL3E09	Entomology I: Morphology & Taxonomy	Global	To know about the classifcation of insects and their morphological features
	ZOL4C10	Biotechnology and Microbiology	Global	Get an idea about the different concepts and application of biotechnological tools in Zoology
	ZOL4E11	Entomology II: Anatomy & Physiology	Global	Understand the physiologcal and anatomical mechanism of insects
	ZOL4E12	Entomology III: Agricultural, Medical and Forensic Entomology	Global	To know about different pest species that infest different crops,their damage and control measures, also provide idea about the application of entomology in Forensics
BBA	BBA1B01	Management Theory and Practice	Global	To create values, beliefs, globally accepted principles
	BBA1C01	Managerial Economics	Global	To create the application of economic principles in business
	BBA2B02	Financial Accounting	Local, National, Regional and Global	Accounting is inevitable everywhere, where you have financial transactions
	BBA2B03	Marketing	Global	The subject address the need for marketing products and services
	BBA3A12	Professional Business Skills	Global	To acquaint with cyber ethics, cyber laws and cyber crimes
	BBA3B04	Corporate Accounting	Local, National, Regional and Global	This paper is important for any corporate business
	BBA3B05	Financial Management	Local, National, Regional and Global	Management of financing need in a business and on any unit which has financial transaction
	BBA3C02	Business Regulations	Regional	To create an awareness regarding the rights and duties of consumer protection act, sale of goods act
	BBA4A13	Entrepreneurship Development	Local	To be aware on setting up of an industrial unit
	BBA4A14	Banking and Insurance	Local, National, Regional and Global	Banking is important for a stable economy.
	BBA4B06	Cost and Management Accounting	National	To become aware about the methods and techniques of costing in decision making process

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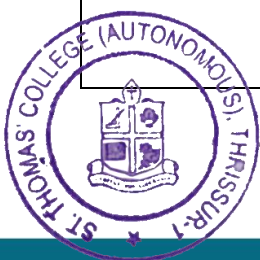
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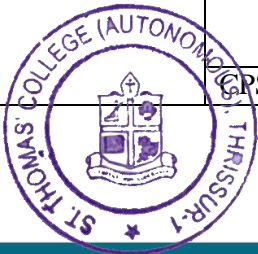|	BBA4C03	Corporate Regulation	Local, National, Regional and Global	In-depth knowledge in corporate laws is important in managing a business
	BBA4C04	Quantitative Techniques for Business	Local, National, Regional and Global	Need for usage of statistical tools in business decision making and even on social research
	BBA5B07	Human Resource Management	Local, National, Regional and Global	Hour is an important input to a business. The subject address the need of hour management on every sector
	BBA5B08	Business Research Method	Local, National, Regional and Global	This paper address the need of research in business on all functions of a business
	BBA5B09	Operations Management	Local, National , Regional and Global	To address the need of managing operations in a business enterprise and any organization which has operative structure
	BBA5B10	Income Tax	National	Tax calculation needs of business and any organization is addressed by this subject
	BBA5B11	Financial Markets and Institutions	National and Global	Choosing between investment opportunities by an individual/a business enterprise is a difficult task. The subject addresses this situation
	BBA5D01	E-Commerce	Local, National, Regional and Global	E-commerce is widely explored by customers and business entities. Students will be equipped with knowledge regarding e commerce which could bring more developments in the field
	BBA6B12	Organizational Behaviour	Local, National, Regional and Global	This paper addresses the need of managing an organization for smooth running of the enterprise
	BBA6B13	Management Science	Local, National , Regional and Global	Decision making in business using operations research methods
	BBA6B14	Project Management	National	To impart knowledge about the concepts and viability of a project
	BBA6B15	Financial Services	Local, National , Regional and Global	Choosing between investment opportunities by an individual/a business enterprise is a difficult task. The subject addresses this situation
	BBA6B16	Investment Management	Local, National , Regional and	Choosing between investment opportunities by an individual/a

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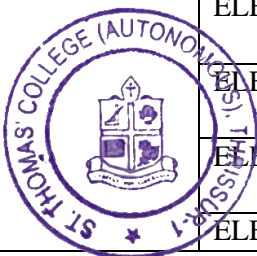|				Global	business enterprise is a difficult task. The subject addresses this situation
BCA	BCA1B01	Computer Fundamentals and Html	Global	Web programming
	BCA2B02	Problem Solving Using C	Global	Structured programming
	BCA2B03	Programming Laboratory I: Html And Programming in C	Global	Laboratory experience of web and structured programming
	BCA3C05	Computer Oriented Numerical and Statistical Methods	Global	Accounting skills
	A11	Python Programming	Global	Data analysis
	A12	Sensors and Transducers	Global	Electronic fundamentals
	BCA3B04	Data Structures Using C	Global	Programming for memory organization
	BCA3C06	Theory of Computation	Global	Computability
	A14	Microprocessors Architectures and Programming	Global	Processor architecture
	A13	Data Communication and Optical Fibres	Global	Data transmission media
	BCA4B05	Database Management System	Global	Database management
	BCA4B06	Programming Laboratory II: Data Structures and Rdbms	Global	Laboratory experience of database and memory
	BCA4C07	E Commerce	Global	Online business concepts
	BCA4C08	Computer Graphics	Global	Theoretical concepts of 3D object creation
	BCA5B07	Computer Organization and Architectures	Global	Memory and processor organization
	BCA5B08	Java Programming	Global	Oops concepts using java

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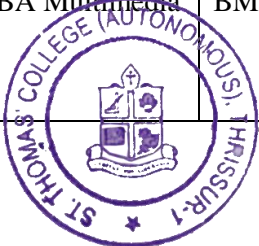|	BCA5B09	Web Programming Using PHP	Global	Web programming using PHP
	BCA5B10	Principles of Software Engineering	Global	Theoretical concepts of software development
	BCA5D01	Introduction to Computers and Office Automation	Global	Programming for memory organization
	BCA5D02	Web Designing	Global	Basics of web design
	BCA5D03	Introduction to Problem Solving and C Programming	Global	Principles of problem solving aspects
	BCA5D04	Introduction to Data Analysis using Spreadsheet	Global	Software tools for data analysis
	BCA6B11	Android Programming	Global	Theoretical concepts of android development
	BCA6B12	Operating Systems	Global	Concepts of OS
	BCA6B13	Computer Networks	Global	ISO OSI layers
	BCA6B14	Programming Laboratory III: Java And PHP Programming	Global	Laboratory experience of java programming and web design
	BCA6B15	Programming Laboratory IV: Android and Linux Shell Programming	Global	Laboratory experience of android programming
	BCA6B16A	System Software	Global	An overview on system software concepts, functions of various system softwares, compilation process of a program.
	BCA6B16B	Machine Learning	Global	Machine automation
	BCA6B16D	Technical Writing	Global	Templates for various professional and technical communication
	BCA6B16E	Fundamentals of Life Skill Education	Global	Career planning and development
B A Criminology and Police Science	CPS4 B05	Sociology of Crime	Local	Evaluate culture Vs practice with reference to Thrissur Pooram and provisions for protection of domestic elephants in wildlife protection act and other elephant protection laws.
	CPS4 B06	Psychology of	Local	Evaluate the mob psychology of

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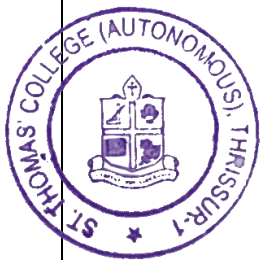|		Crime and Criminal Behavior		Thrissur Poorama and social psychology of Palliakkara Toll Plaza, Thrissur.
B Sc Electronics	ELE1B01	Basic Electronics and Network Theorems	Global	To identify the needs of basic electronics
	A11	Python Programming	Global	To study python language
	A12	Sensors and Transducers	Global	To study about different type of sensors and transducers
	ELE3B05	Digital Electronics	Global	To uderstand digital electronics
	A13	Data Communication & Optical Fibers	Global	To uderstand optical fibers
	A14	Microprocessors-Architecture and Programming	Global	To study microprocessor architecture
	ELE4B06	Analog Integrated Circuits	Global	To understand analog integrated circuits
	ELE5B11	Microcontroller & Interfacing	Global	To study how to interface a microcontroller
	ELE2B03	Basic Electronics and Network Theorems Lab	National	To study about basic electronics and network theorems
	ELE2B04	Electronic Circuits Lab	Regional	To study about electronic circuits
	ELE4B07	Digital Electronics Lab	National	To study about digital electronics
	ELE4B08	Analog Integrated Circuits Lab	Regional	To study about analog integrated circuits
	ELE4B09	Skill Development Lab	Regional	To improve the skills in electronics
	ELE6B17	Microprocessor &Microcontroller Programming and Interfacing Lab	Regional	To understand microprocessor and microcontroller programming
	ELE6B18	Communication System Lab	National	To study communication system
	ELE6B19	Principles of DSP Lab	National	To study DSP
	ELE6B20	Industrial Visit & Project Work	Regional	To study and identify different microcontroller boards and IC's
	ELE2B02	Electronic Circuits	Regional	To study basic electronic devices

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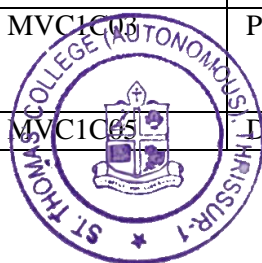|				
M Sc Electronics	ELS1C02	Microcontroller Based System Design	Global	To study about different microcontrollers
	ELS1L01	Application Based Programming In Embedded C & Python	Global	To study about embedded C programming
	ELS1A01	Introduction To Python Programming	Global	To study about Python programming
	ELS2C06	Wireless Communication	Global	To study about wireless communication
	ELS2C07	Design Of Embedded Systems	National	To understand the design of embedded system
	ELS2L02	Embedded Systems Lab	Regional	To study about embedded system
	ELS2A02	Paper Writing And Seminar	Regional	To know how to write a paper
	ELS3C09	Soft Computing And Optimization Techniques	National	To study about soft computing
	ELS3C11	Internet of Things	Regional	To understand about IOT
	ELS4E02A	Cryptography And Network Security	Regional	To study about cryptography and network security
	ELS4E03D	Microwave Electronics	National	To study about microwave electronics
	ELS4P01	Project	Regional	To study and identify different microcontroller boards and IC's
	ELS1C01	Applied Mathematics	Global	To apply mathematics in electronics
	ELS1C03	Modern Digital And Optical Communication	Global	To understand about digital and optical communication
	ELS2C08	Advanced Microcontrollers	Global	To understand about various microcontrollers
	ELS3C10	Advanced Digital Signal Processing	Global	To understand about DSP
	ELS4C12	Robotics	Global	To study the technology used behind robotics
BA Multimedia	BMM3B04	Computer Graphics	Global	Graphics is a method of communication that we use to portray our ideas to our audience, and the better we can communicate

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				the more information that they can retain.
	BMM3B05	Digital Photography	Global	Photography helps to capture anything you feel is important to remember.
	BMM4B10	Introduction to Cinematography	Global	Cinematography sets and supports the overall look and mood of a film's visual narrative.
	BMM5B15	Advanced Web Designing	Global	Web design is important because it impacts how the audience perceives your brand.
	BMM5B12	Techniques of Post Production – Visual Editing	Global	Video editing is important because it is the key to blending images and sounds to make us feel emotionally connected and sometimes truly there in the film we're watching.
	BMM5B13	Techniques of Post Production –Sound Recording, Editing and Mastering	Global	Sound is important because it engages audiences: it helps deliver information, it increases the production value, it evokes emotional responses, it emphasises what's on the screen and is used to indicate mood.
	BMM5B14	Introduction to 3D Modeling and Texturing	Global	3D modeling is used in various industries like film, animation and gaming, interior design and architecture.
Master of Social Work	SOWIC01	History, Philosophy and Fields of Social Work	Global	To study about different approaches and perspectives in social work
	SOWIC02	Sociology and Economics for Social Work Practice	Global	To develop social realities in the historical concept
	SOWIC04	Professional Skills for Social Workers	Global	To enhace the professional skills of social work
	SOWIC05	Social Legislation and Human Rights	Global	To acquaint the students with human rights and organisations to protect human rights
	SOWIIIC12	Participatory Project Planning and Training	National	To develop skills in participatory training and facilitation
	SOWIVC15	Social Work with Vulnerable groups	National	To acquaint the social workers work for the vulnerable and marginalised group in our society
	SOWIV E1 04	Social Work	National	To develop knowledge and skills to work with families

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		Practice with Families		
	SOWIV E2 04	Social Work Practice with Gender Issues	National	To develop perspectives concerning what constitutes a gender issue and learn to create a multi perspective analysis of a given gender issue.
BA Visual Communication	BVC2B02	Basic Photography	Global	Photography helps to capture anything you feel is important to remember.
	BMM3 B04	Computer Graphics	Global	Graphics is a method of communication that we use to portray our ideas to our audience, and the better we can communicate the more information that they can retain.
	BVC4B05	Fundamentals of Cinematography	Global	Cinematography sets and supports the overall look and mood of a film's visual narrative.
	BMM4B09	Fundamentals of Web Designing	Global	Web design is important because it impacts how the audience perceives your brand.
	BVC5B07	Screen Writing	Global	Describe characters visually so filmmakers can try to capture their style, look or vibe.
	BVC5B08	Visual Editing	Global	Video editing is important because it is the key to blending images and sounds to make us feel emotionally connected and sometimes truly there in the film we're watching.
	BVC5B11	Audiography	Global	The Importance of Sound in Film Films are produced using three types of sounds: human voices, music and sound effects.
	BVC6B12	Media Design II- Animation & Visual effects	Global	3D modeling is used in various industries like film, animation and gaming, interior design and architecture.
	BVC6B16	Radio Production	Global	Radio broadcasts provide real-time information, and some that broadcast 24 hours a day, can provide the most recent updates to listeners.
MA Visual Communication	MVC1C03	Photography	Global	Photography helps to capture anything you feel is important to remember.
	MVC1C05	Digital Video	Global	Videos will establish authority and

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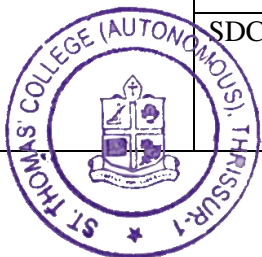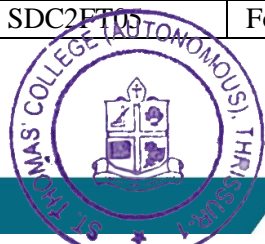|				
		Production		a more personal feel to message.
	MVC2C06	Cinematography	Global	Cinematography sets and supports the overall look and mood of a film's visual narrative.
	MVC3C11	Advanced Visual Editing	Global	Video editing is important because it is the key to blending images and sounds to make us feel emotionally connected and sometimes truly there in the film we're watching.
	MVC3C12	Advanced Studies in Sound Design	Global	Sound is important because it engages audiences: it helps deliver information, it increases the production value, it evokes emotional responses, it emphasizes what's on the screen and is used to indicate mood.
	MVC4C14	Television Production	Global	The role of the television producer in television, these responsibilities are consolidated and the producer is often involved throughout the life of a project.
BVoc Data Science	GEC1MT01	Mathematics for Data Science I	Global	To apply the knowledge of Boolean algebra in modelling, simplifying switching or relay circuits and design of digital
	SDC1CS01	Programming in C	Global	Understanding the basics of Procedural language programming techniques
	SDC1ST01	Fundamentals of Statistical data analysis	Global	To apply the Fibonacci type relation by generating functions and miscellaneous methods.
	SDC1CS02(P)	Programming in C – Lab	Global	Acquire skills in C programming
	SDC1ST02(P)	Statistical Data Analysis Using MS Excel - Lab	Global	Exposure to large scale data analysis using statistical software
	GEC2MT02	Mathematics for Data Science II	Global	To apply the concept of linear transformations to translation, rotation, inversion, and magnification which appears in computer graphics
	SDC2CS03	Introduction to RDBMS and SQL	Global	To describe, define, learn and apply structured query language (SQL) for database definition and manipulation
	SDC2ST03	Probability &	Global	To realize the use of estimation

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			Random variables		theory in various fields like quality control, project management, software engineering, etc
	SDC2CS04(P)	SQL – Lab	Global		The query processing and execution in this will meet the global relevance of data management
	SDC2ST04(Pr)	Mini Project	Global		To develop skills in analyzing and implementing real-world problems
	GEC3MT03	Mathematics for Data Science III	Global		Mathematical and logical thinking and working skills and numerical calculating skill with global relevance in discussed
	GEC3ST01	Optimization techniques	Global		To formulate and solve linear programming problems.
	SDC3ST06	Probability Distributions	Global		The Probability and Testing of Hypothesis will be useful in meeting the global need for data analysts.
	SDC3CS05	Python	Global		To use the simple implementations of Python Programming
	SDC3CS06 (P)	Python – Lab	Global		To acquire programming skills and Object Oriented Skills in Python
	SDC3ST07 (P)	Statistical Data Analysis Using SPSS – Lab	Global		Exposure to large scale data analysis using statistical software
	GEC4ST02	Statistical simulation techniques	Global		The underlying purpose of simulation is to shed light on the underlying mechanisms that control the behavior of a system.
	SDC4CS07	Artificial Intelligence	Global		To impart basic proficiency in representing difficult real life problems in a state space representation so as to solve them using AI techniques like searching and game playing.
	SDC4ST08	Statistical inference	Global		To learn concepts of statistical inference to be applied in research problems
	SDC4ST09	Applied Multivariate Techniques	Global		The Probability and Testing of Hypothesis will be useful in meeting the global need for data analysts.
	SDC4ST10 (P)	R Programming - Lab	Global		To introduce the concept of Data Mining as an important tool for enterprise data management and as a cutting edge technology for

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				building competitive advantage
	SDC4CS08 (Pr)	Project	Global	To develop skills in analyzing and implementing real-world problems
	GEC5CS01	Data Science - Industrial perspective	Global	To provide an overview of an exciting growing field of Data Science
	SDC5CS09	Data mining Techniques	Global	The students gain information about various data mining algorithms. Prepares the students to predict on and implement the different applications like market basket analysis for effective business
	SDC5ST11	Design of experiments	Global	Design different types
	SDC5ST12	Categorical data Analysis	Global	Apply appropriate techniques for analyzing categorical variable
	SDC5ST13	Stochastic Modeling	Global	To realize the use of estimation theory in various fields like quality control, project management, software engineering, etc.
	SDC5CS10	Machine Learning and Data Analytics	Global	To recognize the characteristics of machine learning that make it useful to real-world problems.
	SDC5ST14 (P)	Statistical Data Analysis Using SAS - Lab	Global	Understand and use the fundamentals of the SAS programming language
	SDC5CS11 (Pr)	Internship and Project	Global	To develop entrepreneur skill with an exposure in industries/companies/manufacturing units.
B Voc Forensic Science	SDC5CC19	Cyber Crime and Cyber forensics	Global	The scene of crime in the cyber world is with no boundary, hence, the business with cyber crime is in global perspective
	SDC1ICO2	Indian constitution Criminal Major and Minor Acts	Global, National	It address the various metal illness and rehabilitation programs all over the world as well as the national needs of our criminal justice system
	SDC4CPV14	Criminology, Penology, Victimology and Forensic Science	Global	The need of global development in criminal justice system especially in rehabilitation is being addressed .
	SDC1FS03(P)	Fundamentals of Forensic Science	Global	It address the importance of Fsc in the administration of CJS globally
	SDC2FT09	Forensic Chemistry	Global	Addressing specifics needs in the

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		and Toxicology		case of toxicology at various forensic science labs
	SDC2IT06	Instrumentation Techniques	Global	Familiarizing the various apparatus , which are being used globally
	GEC3ZO09	Animal diversity and wildlife	Global	Cognizing the world diversity in the viewpoint of forensic science.
	SDC3FP09	Forensic Physics	Global	The methods which are being utilized globally to collect and analyze the forensic evidence
	SDC4FQ13	Forensic Dermatoglyphics and Questioned Documents	Global	The specific use of Fingerprint analysis and QDE can be applied to all over the world
	GEC5FM13	Forensic Medicine	Global	Various aspects of legal examination of dead body and all very useful globally.
	GEC5FBS14	Forensic Biology and serology	Global	Identification of suspects through body fluids are important in all over the world
	SDC5AP17	Advanced techniques in personal Identification	Global	Changing of modernization and application of various techniques in personal identification is globally recognized
	SDC5CT18	Crime Investigation technique's	Global	Various innovations on present techniques in crime investigation is globally needed to tackle the emerging crimes.
BA/B Sc/B Com	AUD1E01	Environment Studies	Local	Preserving the quality of environment
	AUD1E02	Disaster Management	Local	Learn about Disaster Management
	AUD1E03	Human Rights/Intellectual Property Rights/ Consumer Protection	National	To ensure unbaised information about products and service
	AUD1E04	Gender Studies/Gerontology	National	Reduce inequality between men and women