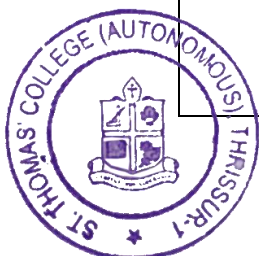




1.3.1 Institution integrates crosscutting issues relevant to Professional ethics, Gender, Human Values, Environment and Sustainability, Human Values into the Curriculum

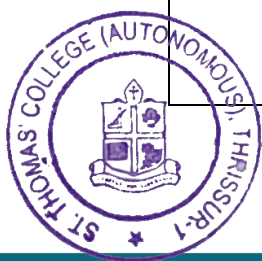
Issue addressed - Professional ethics (PE), Gender (G), Human Values (HV), Environment and Sustainability (E&S)

Sl. No.	Name of the Course	Course Code	Issue addressed	Focus of the course
1.	Phycology, Bryology, Pteridology and Gymnosperms	BOTIC01	E&S	Knowledge required for conservation
2.	Mycology and Lichenology, Microbiology and Plant Pathology	BOT1C02	PE	Creates awareness about ethical use of microorganisms for the benefit of mankind
3.	Cytogenetics, Genetics, Biostatistics, Plant Breeding and Evolution	BOT2C05	PE, E&S	Provides the knowledge of exploiting genetics for the welfare of organisms; provides knowledge in plant breeding techniques to maintain environment sustainability
4.	Plant Ecology, Conservation Biology, Phytogeography and Forest Botany	BOT2C06	PE, E&S	Creates awareness about the limit of exploitation and its legality; Knowledge required for conservation and protection



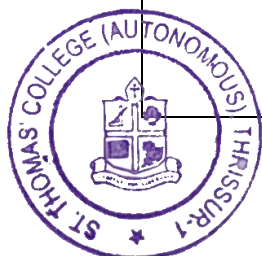


				from invaders
5.	Angiosperm Morphology, Taxonomy and Plant Resources	BOT3C08	PE, E&S	Provides knowledge about the limit of exploitation and its legality; Information required for conservation and protection from invaders
6.	Biotechnology and Bioinformatics	BOT3C09	PE, E&S	Creates awareness about the use of technology in an ethical way and allows application of methodology to maintain a sustainable environment
7.	Environmental biology and Biodiversity Conservation	BOT4E01	E&S	Provides awareness about environment issues, conservation and sustainability
8.	Genetic Engineering	BOT4E02	PE	Creates awareness about the limit of exploitation of advanced techniques and its legality
9.	Tissue culture, horticulture, economic botany & ethnobotany	BOT5B08T	E&S, PE	Awareness about conservation aspects, limit of exploitation and S provide knowledge about techniques which



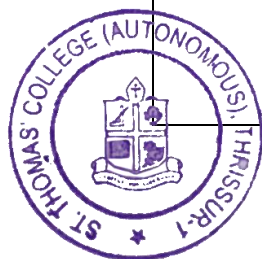


				can be implemented for sustainability
10.	Inorganic chemistry	CHE5B06	E&S	Environmental pollution and waste management system
11.	New vistas in chemistry	CHE6B12	E&S	Green chemistry
12.	Medicinal and Environmental Chemistry	CHE6B13(E3)	E &S	Waste water treatment, controlling air pollutant
13.	Chemistry practical	CHE4C05(P)	E&S	Lab safety awareness laboratory
14.	Theoretical and inorganic chemistry-I	CHEIB01	E&S	Lab safety awareness theory
15.	Green chemistry and nano chemistry	CH3E03	E&S	Green chemistry principles and practices
16.	Business environment & policy	MCMIC01	E&S	Identify the issues related with environment and its impact on business, Analyse the Changing dimensions of business environment.
17.	Corporate governance and business ethics	MCM1C02	PE, HV	Explain the accountability of corporations towards its stakeholders and society and to create an integrated value framework for sustainable development of corporations, evaluate ethical issues, conflicts of interest and



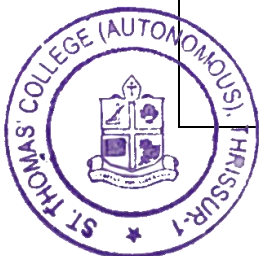


				insider trading and create a system that has strong internal control to prevent corporate frauds. Awareness about work place discrimination.
18.	Management theory and organisational behaviour	MCM1C04	PE, HV	Recognise the theoretical developments of organisational behaviour and its influence in managing workforce, Recognise the theories of personalities, Ethical issues in organizational behaviour and analyse mental and health problems in an organisation.
19.	Management science	MCM2C10	E&S	Enabling the students to schedule the production process optimally, without hampering the receding or succeeding activities and with the most optimum time schedule.
20.	Business management	BCM1B01	PE, HV	Understand the theories of business ethics and analyse factors influencing



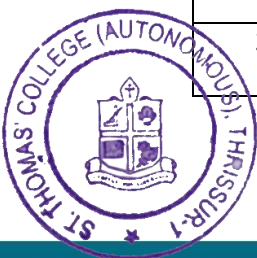


				business ethics, Describe Corporate Social Responsibility and analyse steps in the implementation of CSR activities. Also Illustrate CSR initiatives in India
21.	Business regulations	BCM3B03	HV	Create an awareness regarding the rights and duties of consumers under Consumer Protection Act 1986. Legal principles and general law regarding contract, consumer protection and sale of goods.
22.	Corporate regulations	BCM4B06	PE	Understand corporate law and create awareness regarding the importance of corporate governance in the management of organizations.
23.	Auditing and corporate governance	BCM6B13	PE, HV	Students are acquainting with the sophisticated methods, principles and laws regarding Auditing. Explain the accountability of corporations towards its stakeholders and society and to create an



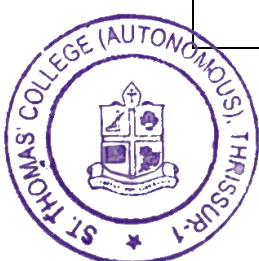


				integrated value framework for sustainable development of corporations, evaluate ethical issues, conflicts of interest and insider trading and create a system that has strong internal control to prevent corporate frauds.
24.	Professional business skill	BCM3A11	PE, HV	Describe the ethical and legal considerations in business analytics. Monitor and critically evaluate the socio- cyber informatics space. (Cyber ethics, E-wastage, Green Computing, E.governance in India)
25.	General Informatics	A12	PE	The paper deals with ethics, copyright, IPR
26.	Principles of Software Engineering	BCS5B10	PE	Ethical development of software
27.	Principles of Software Engineering	CSS4C01	PE	Ethical development of software
28.	International Trade - Theory and Policy	ECO3 C09	E&S	Environmental Standards and International Trade
29.	Economic Growth and Development	ECO3 C10	E&S	Relation between Environment & Development
30.	Fiscal Economics	EC05 B07	E&S	Intervention of Government to



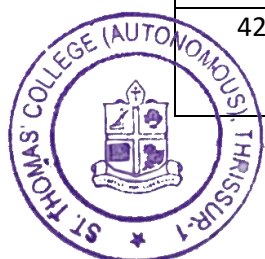


				protect environment
31.	Public Finance: Theory & Practice	ECO2C07	E&S	Environment goods & its protection
32.	Growth & Development	ECO3C10	E&S	Gender related development index, Relation between Environment & Development
33.	Indian Economy: Problems and Policies	ECO1C03	E&S	A global deal on climate change: possible role for India.
34.	Demography	ECO4 E03	G	Population & Gender
35.	Development Economics	ECO6 B14	E&S, G	Development Economics incorporates the topic such as GDI, GEM, Gender issues – the concept of missing women. Environment versus development - the concept of sustainable development, limits to growth, global warming.
36.	Environmental Economics	ECO6 E01	E&S	The Environmental Economics include a detailed understanding of various environmental factors, their influence in the economy and environment.



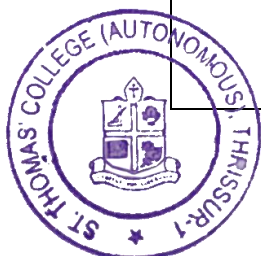


37.	Economies of Growth & Development	ECO6 B14	E&S, G	Amartya Sen's approach, Relation between Environment & development
38.	Functional Grammar and communication in English	ENG1A02	HV, G, E &S	Poems, Prose, short films and plays dealing with gender issues, various human values, and emphasizing the need for sustainable environment
39.	Readings from the fringes	ENG1A03	HV, G, E &S	Poems, Prose, short films and plays dealing with gender issues, various human values, and emphasizing the need for sustainable environment
40.	Readings on Kerala	ENG2A04	HV, G, E&S	Poems, Prose, short films and plays dealing with gender issues, various human values, and emphasizing the need for sustainable environment
41.	Readings on Indian Literature	ENG3A05	HV, G, E&S	Poems, Prose, short films and plays dealing with gender issues, various human values, and emphasizing the need for sustainable environment
42.	Songs and Stories of our world	ENG4A06	HV, G, E&S	Poems, Prose, short films and plays dealing with



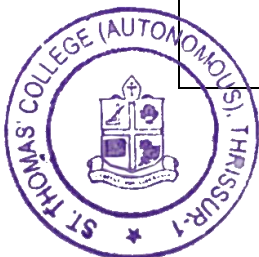


				gender issues, various human values, and emphasizing the need for sustainable environment
43.	Appreciating Poetry	ENG2B02	HV, G, E&S	Poems dealing with gender issues, various human values, and emphasizing the need for sustainable environment
44.	Appreciating Prose	ENG3B03	HV, G, E&S	Prose dealing with gender issues, various human values, and emphasizing the need for sustainable environment
45.	Appreciating Drama	ENG5B23	HV, G, E&S	Plays dealing with gender issues, various human values, and emphasizing the need for sustainable environment
46.	Voices Of Women	ENG6B11	HV, G, E&S	Poems, Novels and plays dealing with gender issues, various human values, and emphasizing the need for sustainable environment
47.	Shakespeare	ENG6B20	HV, G, E&S	Poems, Novels and plays dealing with gender issues, various human values, and emphasizing the need for



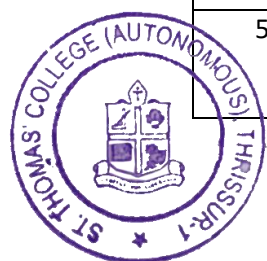


				sustainable environment
48.	British Literature from Chaucer to 18 th century	ENGICO1	HV, G, E&S	Poems, Novels and plays dealing with gender issues, various human values, and emphasizing the need for sustainable environment
49.	British Literature 19 th century	ENGICO2	HV, G, E&S	Poems, Novels and plays dealing with gender issues, various human values, and emphasizing the need for sustainable environment
50.	Indian Literature in English	ENGICO4	HV, G, E&S	Poems, Novels and plays dealing with gender issues, various human values, and emphasizing the need for sustainable environment
51.	Twentieth century British Literature up to 1940	ENG2 CO5	HV, G, E&S	Poems, Novels and plays dealing with gender issues, various human values, and emphasizing the need for sustainable environment
52.	American Literature	ENG2 C07	HV, G, E&S	Poems, Novels and plays dealing with gender issues, various human values, and emphasizing the need for sustainable environment



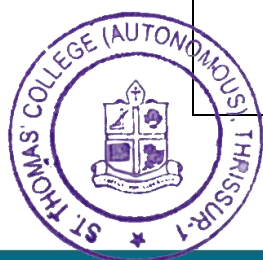


53.	Postcolonial writings	ENG C11	HV, G, E&S	Poems, Novels and plays dealing with gender issues, various human values, and emphasizing the need for sustainable environment
54.	Twentieth century British Literature post 1940	ENG2 CO8	HV, G, E&S	Poems, Novels and plays dealing with gender issues, various human values, and emphasizing the need for sustainable environment
55.	World Drama	ENG3 CO9	HV, G, E&S	Poems, Novels and plays dealing with gender issues, various human values, and emphasizing the need for sustainable environment
56.	English Literature in the 21st Century	ENG3 E07	HV, G, E&S	Poems, Novels and plays dealing with gender issues, various human values, and emphasizing the need for sustainable environment
57.	Literature and Ecology	ENG4 E12	HV, G, E&S	Poems, Novels and plays dealing with gender issues, various human values, and emphasizing the need for sustainable environment
58.	Malayalam Literature in English Translation	ENG4 E18	HV, G, E&S	Poems, Novels and plays dealing with gender



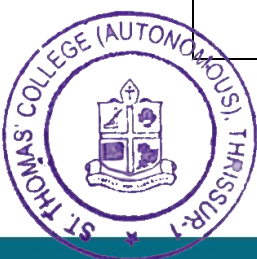


				issues, various human values, and emphasizing the need for sustainable environment
59.	Gender Studies	HIS4 B20	G	Gender history looks at the past from the perspective of gender. It is in many ways an outgrowth of women's history
60.	Trends In Historiography	HISIB01	E&S	environmental history helps us to understand human history on account of changes in human societies in relation to changes in natural environment
61.	Real Analysis -I	MTH1C03	E&S	A step to Topology
62.	Real Analysis II	MTH2C07	E&S	Measurable sets & functions; Basic ideas of Measure theory
63.	Basic Analysis	MTS5B06	E&S	Real Numbers and Sequences: to know the properties of real numbers
64.	Real analysis	MAT6B09	E&S	Riemann Integral; To know about integrable functions
65.	Fluid Dynamics	MTH4E10	E&S	Aerofoils; used in aeroplane industries
66.	Advanced Complex Analysis	MTH4E05	E&S	Streaming motions and Stoke stream functions,



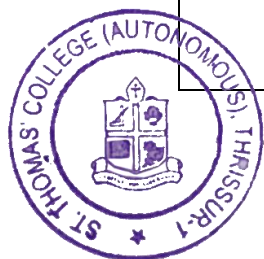


				aerofoils; used in aviation and industries
67.	Fluid Dynamics	MT4E04	E&S	Streaming motions; used in fluid flow problems
68.	Advanced Complex Analysis	MT4E06	E&S	Study on complex potentials; used in motion of fluids
69.	Theory of equations, matrices and vector calculus	MAT4B04	E&S	Characteristic equation of a matrix, C-H Theorem; Matrices uses in CAT Scans and MRI'S, Medical imaging
70.	Complex analysis	MATIBIO	E&S	Complex functions, Elementary functions, Contour Integration; Used in photostat machine and fax.
71.	Scientific Programming with Scilab	MTH2A03	E&S	Computer programming Sessions; involves in scientific computations
72.	Scientific Programming with Python	MTH2A04	E&S	Computer programming Sessions; involves in scientific computations
73.	Calculus and analytic geometry	MATIB03	E&S	Finding Focus and eccentricity of conics; Used in construction works
74.	Mathematics-4	MTS4C04	E&S	Fourier series used in signal processing
75.	Mathematics-3	MTS3C03	E&S	Vector calculus involves in all



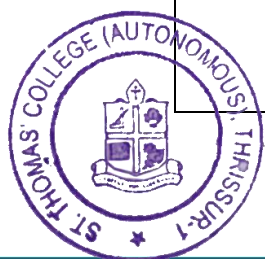


				scientific computations
76.	Graph Theory	MAT6B13 (E01)	E&S	Connected Graphs, Vertex Connectivity, Planar Graphs; Used in Network and Communication
77.	Graph Theory	MTS6B14 (E01)	E&S	Degree of vertex, Connected graphs; Graphs, Planar graphs Industrial needs in network analysis
78.	Graph Theory	MTH4E11	E&S	Degree of vertex, Connected Graphs, Eulerian graphs; Used in road network
79.	Algebra-II	MTH2C06	E&S	Galois theory; used in many areas of computer science especially in cryptography
80.	Abstract Algebra	MTS5B05	E&S	Group theory; Describing symmetry properties of classical and quantum mechanical systems.
81.	Mathematics For Physical Sciences	MAT5D17	E&S	Group of permutations; To study physical properties of a chemical structure
82.	Algebraic Topology	MTH4E07	E&S	Homomorphism, Homotopy, Fundamental Group, homology; Used in Proof Engineering



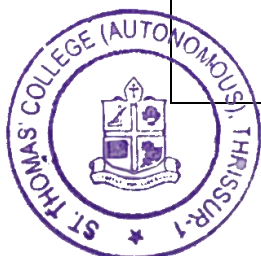


83.	Algebra-I	MTHIC01	E&S	Irreducible polynomials; used to design military communication systems
84.	Mathematics	MAT4C04	E&S	Numerical Methods; involves in all scientific computations
85.	Number theory and linear algebra	MAT6B12	E&S	Primes and their distribution; used to develop cryptosystems In communications
86.	Topology I	MT2C08	E&S	Topological spaces and Separation Axioms; Used in Designing products
87.	Calculus of Single variable-2	MTS3B03	E&S	Transcendental functions, Sequences, series, Parametrization; Used in Electrical Engineering to study electric signals
88.	Numerical methods	MAT6B11	E&S	Numerical solutions of ODE; Used in problem solving in industry
89.	Complex Analysis	MTH3C12	E&S	POWER SERIES EXPANSION, RESIDUES: Know more of power series expansion
90.	Topology II	MT3C13	E&S	Product Spaces Homomorphisim, Fundamental Group; Used in



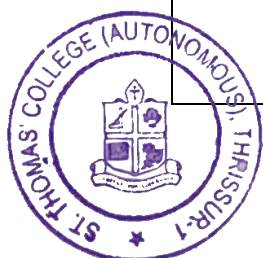


				Manufacturing geometric Objects
91.	Topology	MTH2C08	E&S	Topological Spaces, Homomorphism, Topological properties; Used in describing the space- time structure of universe
92.	Topology of Metric spaces	MTS6B14 (E02)	E&S	Topological Spaces, Metric Spaces; Studying the shape of data
93.	PDE & Integral Equations	MTH3C14	E&S	Solving wave equation and heat equation, and boundary value problem
94.	Operations Research	MT4E05	PE, HV	Solving Integer Programming Problems, NLPP programming algorithms and Inventory models are taught
95.	Numerical Analysis	MTS5B07	PE, HV	Designs and analysis of techniques to give approximate but accurate solutions to hard problems is taught
96.	Operations Research	MTH2C10	PE, HV	Solving Integer Programming Problems, NLPP programming algorithms and



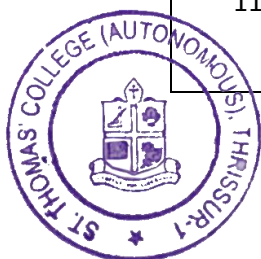


				Inventory models are taught
97.	Linear Algebra	MTS4B04	PE	Linear operator, rank of a Matrix, Eigen values and Eigen vectors; used in machine learning
98.	Discrete Mathematics	MT1C05	PE	Boolean Algebra & Automata; Used Information Technology
99.	Technical writing with LATEX	MTH2A02	PE	Computer Practical Sessions; Typesetting mathematical documents
100.	Discrete Mathematics	MTH1C04	PE	Language, Grammar, Automata; Applied to the analysis and manipulation of actual human language as well as the development of human- computer interaction (HCI) and artificial intelligence (AI).
101.	Methodology of Science and Basic Mechanics	PHY1 B01	PE	This course is designed to impart the knowledge about the research ethics needed in research field
102.	Non-conventional energy sources	PHY5D01 (1)	E&S	This course is designed to understand the need for developing the sustainable energy resources for the future generations and



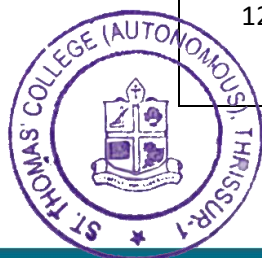


				using the conventional energy sources wisely.
103.	Distribution Theory	MSTIC03	PE	Model selection
104.	Statistical Computing - 1	MSTIC05	PE	Develop data analysis skills
105.	Ability Enhancement Course	MST1A01	PE	Develop data analysis skills
106.	Design and Analysis of Experiments	MST2C06	PE	Planning and conducting experiments
107.	Estimation Theory	MST2C07	PE	Estimation of prob
108.	Sampling Theory	MST2C08	PE	Proper sampling techniques
109.	Testing of Statistical Hypotheses	MST2C09	PE	Testing of parametric & non paramedic methods
110.	Statistical Computing-II	MST2C10	PE	Develop data analysis skills
111.	Professional Competency Course	MST2A02	PE	Skill development
112.	Applied Regression Analysis	MST3C11	PE	Proper modelling and forecasting
113.	Stochastic Processes	MST3C12	PE	Proper model selection for the process
114.	Lifetime Data Analysis	MST3E 05	PE	Data management
115.	Statistical Quality Control	MST3E 10	PE	Understand process capability analysis
116.	Statistical Computing-III	MST3C13	PE	Develop data analysis skills
117.	Multivariate Analysis	MST4C14	PE	Understand to handle multivariable



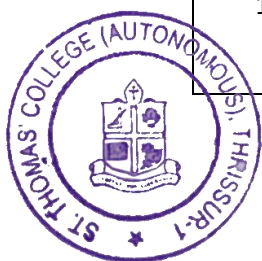


				data and its analysis
118.	Time Series Analysis	MST4E 02	PE	Discuss time series models and determine suitable models
119.	Statistical Computing-IV	MST4C16	PE	Develop data analysis skills
120.	Official statistics and probability	STAIB01	PE	Demonstrate the ability in collection, presentation, analysis and interpretation of data.
121.	Bivariate random variables and probability distributions	STA2B02	PE	Understand and solve problems in probability, statistical distributions
122.	Statistical estimation	STA3B03	PE	Understand and apply theories of classical inference involving estimation of parameters
123.	Mathematical methods in statistics	STA5B05	PE	Understand real number system and its properties
124.	Testing of hypothesis	STA4B04	PE	Understand and apply the theories of classical inference involving testing of hypotheses.
125.	Sample surveys	STA5B06	PE	Demonstrate the ability in collection, presentation, analysis and interpretation of data.
126.	Linear regression analysis	STA5B07	PE	Understand and solve problems in regression.





127.	Statistical computing	STA5B08	PE	Develop data analysis skills
128.	Economic statistics	STA5D01	PE	Understand basic idea of timeseries and index numbers
129.	Quality control	STA5D 02	PE	Understand and apply the techniques used in statistical quality control
130.	Time series and index numbers	STA6B09	PE	Understand and apply the techniques used in time series and index numbers
131.	Design of experiments	STA6B10	PE	Understand and apply the techniques used in design of experiments
132.	Population studies, actuarial science and vital statistics	STA6B11	PE	Understand and apply the techniques used in actuarial science and population studies
133.	Operations research and statistical quality control	STA6B12	PE	Understand and apply the techniques used in linear programming and, statistical quality control
134.	Project work	STA6B13	PE	Skill development
135.	Reliability theory	STA6B16(E)	PE	Explore the concepts of system reliability
136.	Management theory and practice	BBA1B01	PE, HV	Understand the theories of business ethics



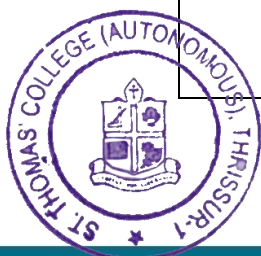


137.	Financial accounting	BBA2B02	PE,HV	Insist to follow universal concepts and golden rules
138.	Professional business skills	BBA3A12	PE	Awareness of cyber ethics, cyber crime
139.	Business regulations	BBA3C02	HV	Understand the rights of consumer, various laws etc
140.	Cost and management accounting	BBA4B06	E&S	To be aware of the utilisation of limited resources
141.	Corporate regulations	BBA4C03	PE	Understand the importance of corporate governance
142.	Financial management and accounting	BCA2C03		Provide managerial decision-making skills and accounting procedures to meet professional ethics
143.	Python programming	All	PE	Mining relevant data from authorized and approved sources and meeting ethics
144.	E-commerce	BCA4C07	PE	Maintain security features for online business and e-payment
145.	Principles of software engineering	BCA5B10	PE	Include professional ethics in various software development phases



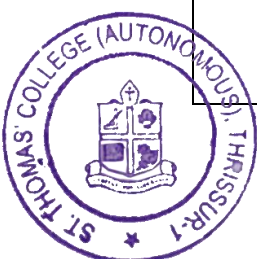


146.	Industrial visit and project work	BCA6B17	PE	Implementing professional ethics
147.	Machine learning	BCA6B16B	PE	Implementing professional ethics using machine learning applications
148.	Discrete structures	BCA6B16C	PE	Implementing professional ethics in software testing
149.	Computer graphics	BCA6B16D	PE	Implementing professional ethics in professional and technical communication, web content writing, soft skill development and search engine optimization
150.	Technical writing	BCA6B16E	HV	Human values in career planning and development
151.	Fundamentals of Criminology	CPS1B01	PE	Nature of crime, Crime-Definitions;historicalperspectives; nature, origin and scope, Criminology as a social science, Relations with other Social Sciences, Medicine & PE Law subjects, Crime in modern society. Structure of Criminal Justice in India. Role of legislature, police, judiciary and prison system in





				Criminal Justice; co-operation and co-ordination among the various sub systems of criminal justice system.
152.	. Human Rights and Social legislations	CPS3B04	HV	Concept of Human Rights - Historical development of human rights. Universal Declaration of Human rights, 1948. Different kinds of rights- National Human Rights Commission - State Human Rights Commission Role of the Police unit of Human rights and social justice. Constitution of India Fundamental Rights (Articles 14, 19,20,21,22 and 32). Writs, Directive principles of state policy, Human Rights during emergencies. Custodial crimes and torture Custodial death, rape, Use of third-degree methods





ST. THOMAS COLLEGE (AUTONOMOUS)

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NAAC 5th Cycle Accreditation

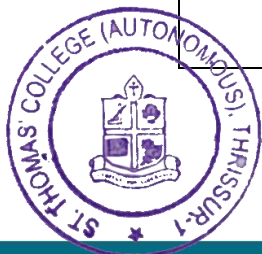
NAAC (4th Cycle): A++ Grade, 3.70 Score

NIRF Ranking 2022: 53

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				<p>Violation of the rights of marginalized groups: rights of women, children, prisoners and dalits: Important case laws related to police torture. Inferiority and permissiveness of police, compelling conditions, insincere exhortations, purposeful reluctance to use aids in investigation - corruption. Legislation for the Amelioration of social problems- Prevention of Atrocities Act 1989, Protection of Civil Rights Act, 1976. Legislations relating to the welfare of women- Dowry prohibition Act 1961, Immoral Traffic (Prevention) Act- 1956, Prevention of Domestic Violence Act, 2005. The Sexual Harassment of Women at Workplace Prohibition (Prevention, and</p>
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NAAC (4th Cycle): A++ Grade, 3.70 Score

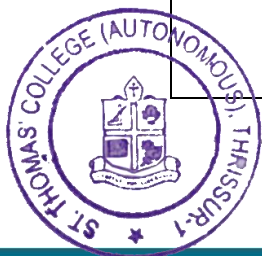
NIRF Ranking 2022: 53

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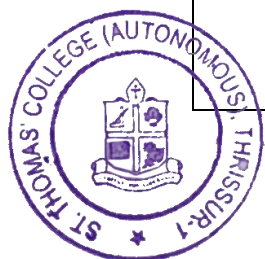
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				Redressal), 2013. Legislations relating to the welfare of children- The Protection of Children from Sexual Offences Act (POCSO Act) 2012, Juvenile Justice (Care and Protection of Children) Act, 2015. Legislations relating to the welfare of weaker sections and other minor acts
153.	Criminal Law, Procedure and Evidence	CPS5B09	PE	Definitions Vices, Sin, Tort and Crime History of criminal law- Constitution, IPC and IEA - Nature and Scope- Doctrine of Actus Reus and Mens Rea. Crimes against property - Theft - Robbery Dacoity. Crimes against persons: Culpable Homicide, Murder, Rape, Hurt, Crimes against public tranquillity: Riot, Unlawful assembly. Organizational setup of courts in India. Complaint-inquiry





				investigation - police report public prosecutor defence counsel - Arrest. Bail, Search. Seizure. Summons - Warrant - Information regarding cognizable and non-cognizable offence. Trials: Summary, Summon, and warrant trials. Indian Evidence Act History in India. Evidence - Meaning, principles, and concept of relevancy and admissibility. Confessions and Dying Declaration. Presumption of fact and law, Burden of proof.
154.	Practical Crime Investigation	CPS5B10	PE	Recording FIR, Case Diary, Charge sheet, and Dying Declaration. Scene of Crime inspection. Sketching, Collection and preservation of evidence. Methods of Investigation Interrogation - Information, and





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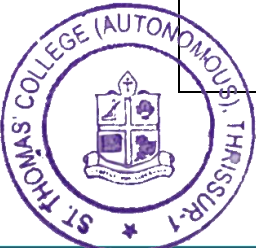


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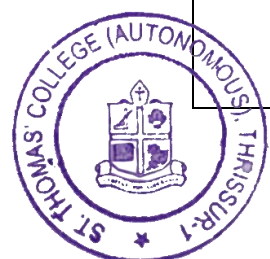
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				<p>instrumentation. Modus Operandi, Police Dogs, Polygraph, Portrait building. Examination of Witnesses and Suspects. Techniques of Interrogation and interviewing. Confession, Inquests. Interviewing the Witness, Types of Witness, in case of Death Medical report, Connecting the Crime with the Criminal, Recording of the Statement, Filing of Charge Sheet, Produce in the Court. Investigation of Theft, house breaking, robbery, murder, rape, motor vehicle accidents, Forgery. Presentation of evidence and witness in the court of law Victims Cooperation in investigation- Lapses of Police procedure during prosecution – Violation of human rights during police investigation</p>
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155.	Juvenile and Gender Justice System	CPS6B11	G	Definition, Nature and forms of juvenile delinquency, Beijing Rules- Riyadh Guidelines, UNCRC, National Policy for Children, History of juvenile Legislations in India. Salient features of JJ Act 2000 and Amended Act 2006. CWCs and JJBS Institutions for Juveniles/children , The role of police with reference to children SJP, Child Welfare Officer, Role of NGOs in handling juveniles. Children in need of Care and Protection, Children in Conflict with Law. Youth Deviance- Recent Trends- Youth Alienation and Crimes. Counselling, Restoration/Repatriation of Children, After-Care, Adoption, Foster Care & Sponsorship, 1 UDHR, Issues and Problems in Reintegration. CEDAW, Lahore
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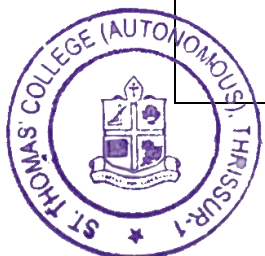


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				declaration and Gender Justice - Protection of Women rights in Constitution of India National Commission for Women Maternity laws. Marriage- Restitution of Conjugal Rights Judicial separation laws Divorce Maintenance Succession & inheritance Family courts. Prenatal diagnostic law, Medical Termination of Pregnancy Act - Prevention of Commission of Sati Act Dowry Prohibition Act - Prevention of Immoral Traffic Act Prohibition of Indecent representation off women, Sexual Harassment at Workplace Act, 2013. Types: Cruelty, Miscarriages, Rape, dowry deaths, domestic violence and gender and sexual harassment, Female infanticide and
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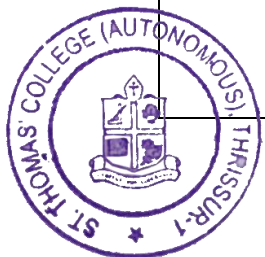
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				feticide, Trafficking in women, Stalking, Internet Abuse, and Cell phone abuse.
156.	Police Science and Crime Investigation	CPS6B12	PE	Protecting a scene of crime and photographing, sketching a scene of crime, Inspection of a Scene of Crime i.e., Spiral method, Strip method, Double Strip method and Wheel or Pie method. Markings on each item of evidence from the scene of crime for identification purpose. Ammunition and related evidences, biological evidences, Tool marks etc., Glass particles, Trace evidences- Paint, paint chips, Explosive residues, Dust on clothes, Print evidences (Finger prints, foot prints), documents- charred documents. Examinations and





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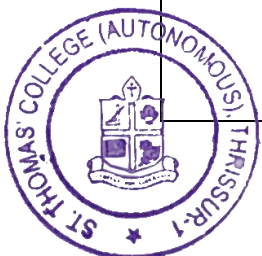
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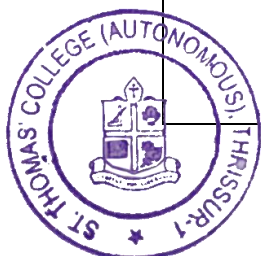
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				examinations of: (1) Eye Witness, (2) Expert witness (3) Police witness.
157.	Correction and Personality-development	CPS6B13	PE	U.N Principles for Protection of all Persons under any form of Detention. Parole: history, eligibility suitability, advantages and demerits, Probation: history, Probation of Offenders Act, advantages and disadvantages. Half way homes and after case services, recidivism and measures to combat recidivism. Case study methods, group method, counselling in prisons, moral training and value education, special programmes for the personality development of hardened criminals, repeaters of crime, goondas, terrorists and life convicts. Personality Development of the Prison Staff-





				Training for custodial and correctional staff of the prisons, coordination between the police and the prison officials for the correction, reformation, rehabilitation and reintegration of the incarcerated. Prisons as a subsystem in justice administration, Coordination with the Bench and Bar (Judiciary) for justice administration. On any subject relating to prison administration, correction, reformation, rehabilitation, reintegration and personality development of the incarcerated. [Dissertation of 100-120 pages.
158.	Victimology and Victim Justice	CPS6B14	PE	The role of the United Nations in establishing victim rights. The emotional and practical needs of crime victims. Magna Carta for victims- Declaration of Basic Principles of





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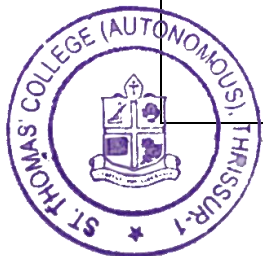


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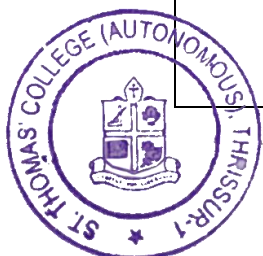
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				<p>Justice for Victims of Crime and Abuse of Power, 1985.UN Congresses- UN Congresses on Treatment of offenders Geneva Convention - on Treatment of offenders. Patterns of Victimization - Victims of Crime, Victims of Abuse of Power, Women Victims Dowry, battered women, Rape and other kind of sexual harassment, Child Victims, Victims of group violence. Restitution, Ex-Gratia Grant, Compensation by Insurance Companies, Compensation for Victims of Crime and abuse of power, Victim Compensation- An International Perspective. Role of citizens and voluntary organizations, Preventing Victimization, Assisting victims during crime investigation and trial, Legal aid to victims of crime Counselling, guidance and rehabilitation of</p>
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				special kinds of victims of crime and child - abuse, National Organization for Victim Assistance (NOVA), USA & Victim Witness Assistance Programs (V W A), Introduction to Restorative Justice System
159.	Project	CPS6B15	PE	Students can undergo project in any departments/ organizations like courts, jail, Police stations, Police Academy, rehabilitation centres, juvenile homes, NGOs etc., that apply criminology in practice. The students have to submit a project at the end of the sixth semester. The work of the project starts from the fifth semester.
160.	Offender Rehabilitation	CPS6E02	HV	Principal and techniques of rehabilitation, Typical programmes of rehabilitation at primary secondary & tertiary levels. Use of





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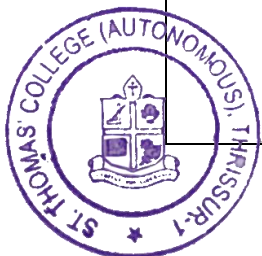
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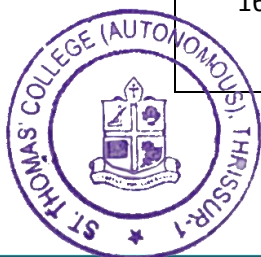
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				psychotherapy, Behaviour therapy, Cognitive Therapy, Art therapy in rehabilitation, Modern Trends in Therapy, Advantages and disadvantages of psychotherapy. The Treatment of Sex Offenders, The Treatment of Mentally Disordered Offenders, The, Treatment of Drug Misuse, Treatment and Social Policy. RNR Model, Good Living Model etc
161.	Security Management	CPS6E03	PE	Physical security measures, Closed-circuit television, Intruder alarm systems, Preventing and dealing with burglary and theft, Essential precautions against fire, Protection against bombs and explosive devices, IT Security. Shops supermarket (Mall) and shopping precincts, Hospitals &



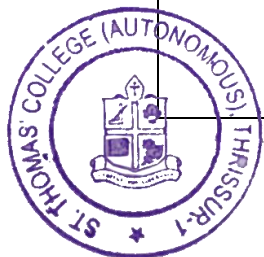


				Hotels, managing people and public access, Museums, airports, supermarkets, stores, apprehending, store detectives, patting people down. Search legalities, Inventory control, pilfering. Shrink defalcation. Common types of emergencies, Emergency procedures, The role of security, Terrorism, Chemical, biological and radiological attacks, Hoax calls, letter bombs and other explosive devices, Crime and incident scene preservation. Protecting staff during travel, Defensive driving, Business travel, Reducing the risk of kidnap and ransom Close protection.
162.	Wireless Communication	ELS2C06	PE	Cellular system design
163.	Design Of Embedded Systems	ELS2C07	PE E&S	Performance testing



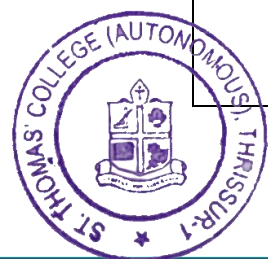


164.	Internet Of Things	ELS3C11	PE	lot protocols
165.	Cryptography And Network Security	ELS4E02A	PE	Security associations
166.	Basic Electronics And Network Theorems	ELEIB01	PE	Network theorems
167.	Digital Electronics	ELE3B05	PE	Circuit designing
168.	Data Communication & Optical Fibers	A13	PE	Communication protocol
169.	History, Philosophy and Fields of Social Work	SOW 1 C 01	HV, G, PE	Democratic framework, worth and dignity of individual, interacting forces of human behaviour, uniqueness of individuality, change and the potentiality to change, the right for self-direction, participation of clients in the helping process, right to self-fulfilment to the extent of his capacity and within the limits, Society's responsibility to facilitate self-fulfilment of the individual, group or community. Operationalising cardinal social work values, challenges in embracing values. Moral & Religious





				values in social work philosophy- Christian, Hindu, Muslim, Buddhist, Gandhian traditions. Secular humanism, Rationalism, Welfarism, Liberalism and democracy, Socialism and human rights. Code of Ethics in Social Work Social Work with Children, Adolescents and Youth, Women, Aged, Gender issues, differently abled, SC/ST, unorganized migrants, labourers, PLHIV, Environment Issues.
170.	Sociology and Economics for Social Work Practice	SOW 1 C 02	G	Social Stratification: Characteristics, Gender, caste, class.
171.	Professional Skills for Social Workers	SOW 1 C 04	HV	Factors affecting self: attitudes and values, Core relationship qualities: warmth, empathy, genuineness, unconditional positive regard, Professional integrity, Professional boundaries



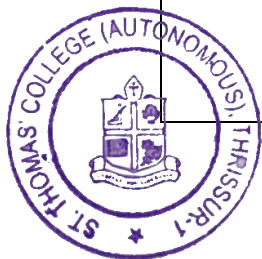


172.	Social Legislation and Human Rights	SOW 1 C 05	HV	Concept and nature of human rights: Values: Dignity, Liberty, Equality, Justice, and Unity in Diversity. Legislations for the Protection of Children and Women- their social relevance, objectives, implications, remedies and critical review. Social Legislations for the 1 aged, Disabled and other weaker Sections, their social relevance, objectives, and implications, remedies and critical review
173.	Social Casework	SOW 2 C 06	HV	Individualization, Purposeful expression of feelings, Controlled emotional involvement, Acceptance, Non-judgmental attitude, Client self-determination, Confidentiality)
174.	Community organization and Social Action	SOW 2 C 08	HV	Emphasis on human rights, multiculturalism, diversity,



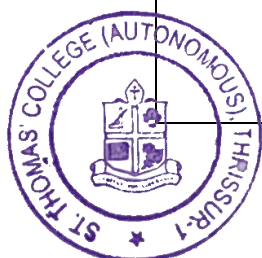


				pluralism and social justice.
175.	Theory and Practice of Counselling	SOW 2 C 10	PE	Counsellor as a professional: Code of ethics and legal and ethical aspects of Counselling Environmental Impact Assessment [EIA], Gender Impact Assessment [GIA]
176.	Participatory Project Planning and Training	SOW 3 C 12	E&S	Environmental health: Air pollution, water pollution, poor housing, climate change, health hazards of accumulated solid waste.
177.	Community Health	SOW 3 C 13	E&S	Environment sanitation, Food sanitation. Legislations pertaining to health: Medical Termination of Pregnancy Act, The Pre-Conception and Pre- Natal Diagnostic Techniques (Prohibition Of Sex Selection) Act(PCPNDT Act
178.	Health Care Social Work	SOW 3 E1 01	HV	Health Care Social Work Practice Standards: Values, Ethical dilemmas, Role conflicts, Self-determination and confidentiality. Medico-legal



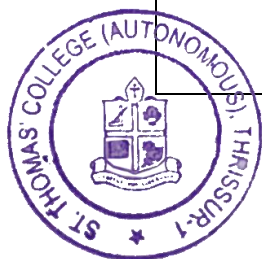


				issues, Patients' rights and responsibilities, Professional supervision and importance of continuing education.
179.	Rural Community Development and Governance	SOW 3 E2 01	G	Gender mainstreaming in rural governance
180.	Urban Community Development and Governance	SOW E 2 02	G	Informal sector: Composition Gender, Caste, Problems related to pollution, waste disposal and sanitation,
181.	Social Work with Vulnerable groups	SOW 4 C 15	G	Social exclusion, Vulnerability- Multiple vulnerability, Deprivation, marginalization, at risk group, socio-economic disadvantage, stigmatization; A gender analysis of poverty, health, education and labour. Vulnerable women- adolescent girls, victims of violence and harassment, women having mental illness, non-heterosexual women Homeless Women, Women in Commercial sex work, women



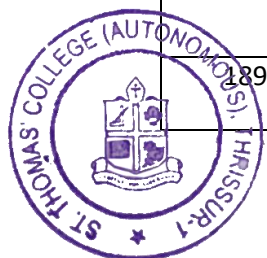


				with HIV/AIDS, Female offenders, older women, women with disabilities and Female substance users.
182.	Environmental Studies and Disaster Management	SOW 4 E 2 03	G, E&S	Environment and Ecology. Basic concepts: Ecosystems, Biotic and abiotic factors, climatic factors, food chain, food web. Bio Geo Chemical G, E&S cycles. The interrelatedness of living organisms and natural resources; Gender and Environment: The relationship between Men, Women and Environment, Eco- feminism.
183.	Social Work Practice and Gender	SOW 4 E2 04	G, HV	Concepts- gender, gender studies, gender identity, gender role stereotyping, gender division of labour, gender discrimination, patriarchy, gender equality and equity; Overview of feminist theories - Liberal feminism, Radical Feminism, Black feminism, postmodern



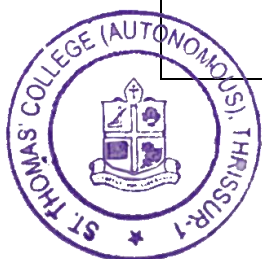


				feminism, Eco feminism. Women's Movements.
184.	Fundamentals of Forensic Science	FDC1FS01	PE	It Includes the All-Professional Ethics, Which Is Inevitable in The Discipline
185.	Indian Constitution criminal minor and major act	SDC11C02	HV	Human rights in India; It connect the al human values, obligation, and rights of an Indian
186.	Criminology, Victimology, penology and forensic Psychology	SDC4CPV14	HV	Nature and human values. It describes about the society and its impact on life
187.	Forensic Chemistry and Toxicology	SDC2FT05	PE	Ethics in preparing the reports on Forensic Chemistry and toxicology; It indicate the significance of \forensic reports in the determination of court
188.	Instrumentation Techniques	SDC21T06	PE	Study on how the mishandling of machinery may be the cause of escaping the culprit; Forensic reports may be affected by the wrong handling of the concerned machinery and it may lead to the wrong answers
189.	Animal diversity and wildlife	GEC3ZO09	E&S	It gives immense awareness about





				our nature and the importance of protection of the same; The existence of human being is greatly depending on the nature in which he exists
190.	Forensic Physics	SDC3FP09	PE	Legal implications of forensic physics, Wrong use of forensic physics may be the one of the causes of the escaping of culprit.
191.	Forensic Dermatoglyphics and Questioned Documents	SDC4FQ13	PE	Studies the ethics in expert testimony; Expert testimony is very important in the criminal justice system and it is the leading principle of the same.
192.	Forensic Medicine	GEC5FM13	PE	Ethics in the practice of forensic medicine; Without the proper examination no one should make the forensic report
193.	Forensic Biology and serology	GEC5FBS14	PE	Ethics in the identification of suspects; Identification of the suspect is the first process of the verdict hence identification of the suspect



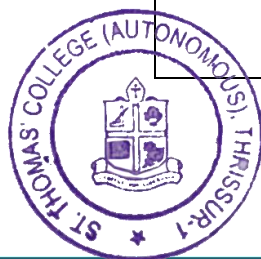


				should be reasonable
194.	Advanced techniques in personal Identification	SDC5AP17	HV	Values of the modern techniques to save the society from lawlessness; criminals are adopting the sophisticated techniques to establish a crime in modern world hence our justice system should use the modern techniques to curb the same
195.	Crime Investigation techniques	SDC5CT18	PE	modern techniques to tackle; since to curbed the escaping of criminal from the clutches of law by producing the modern scientific techniques
196.	Cybercrime and cyber forensics	SDC5CC19	HV	Importance of values of cyber world and human life; The human values in society may be degraded as of the wrong use of the cyber world.
197.	Literature In Hindi	A09(1)	G, HV	Which creates awareness about different issues like gender and human values
198.	Culture and Civilisation	A 10	G, HV	Which creates awareness about different issues like gender and human values



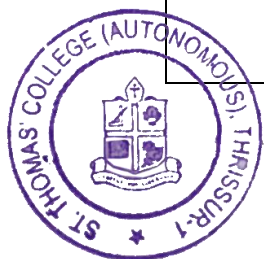


199.	Communication Skills In Hindi	A07(1)	G, HV, E&S	Which creates awareness about different issues like gender and human values
200.	Novel And Short Stories	A10(1)	HV, E&S	Which creates awareness about different issues like gender and human values
201.	Prose and Drama	HIN1A07 (1)	HV	Which creates awareness about different issues like gender and human values
202.	Poetry in Hindi	HIN 3 A09	G, HV, E&S	Which creates awareness about different issues like gender and human values
203.	Novel and short stories	HIN 4 A10	HV	Which creates awareness about different issues like gender and human values
204.	Poetry, Correspondence and Translation	HIN2A08(2)	G, HV, E&S	Which creates awareness about different issues like gender and human values
205.	Poetry and short stories	HIN2A08(3)	G, HV, E&S	Which creates awareness about different issues like gender and human values
206.	Prose and one act plays	HIN1A07(3)	G, HV	Which creates awareness about different issues like gender and human values
207.	Malayalasaahithyam - 1	MAL1A07 (01)	G, HV, E&S	Which creates awareness about different issues like Gender (G), Human Values (HV), Environment and



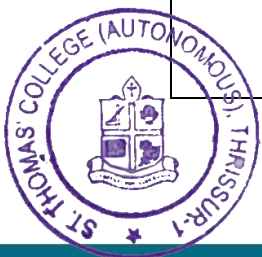


				Sustainability (E&S)
208.	Malayalashithyapadanam-1	MAL1A07 (02)	G, HV, E&S	Which creates awareness about different issues like Gender (G), Human Values (HV), Environment and Sustainability (E&S)
209.	Malayalam - Bhashayum Sahithyavum-1	MAL2A07 – 1 (03)	G, HV, E&S	Which creates awareness about different issues like Gender (G), Human Values (HV), Environment and Sustainability (E&S)
210.	Malayalashithyam - 2	MAL2A08 (01)	G, HV, E&S	Which creates awareness about different issues like Gender (G), Human Values (HV), Environment and Sustainability (E&S)
211.	Malayalashithyapadanam - 2	MAL2A08 (02)	G, HV, E&S	Which creates awareness about different issues like Gender (G), Human Values (HV), Environment and Sustainability (E&S)
212.	Malayalam - Bhashayum Sahithyavum-2	MAL2A08(03)	G, HV, E&S	Which creates awareness about different issues like Gender (G), Human Values (HV), Environment and Sustainability (E&S)





213.	Malayalasaahithyam - 3	MAL3 A09	G, HV, E&S	Which creates awareness about different issues like Gender (G), Human Values (HV), Environment and Sustainability (E&S)
214.	Malayalasaahithyam - 4	MAL4 A10	G, HV, E&S	Which creates awareness about different issues like Gender (G), Human Values (HV), Environment and Sustainability (E&S)
215.	Samskrtsahityasa miksha-I (Kavya literature and Applied grammar)	SKT 1 A 07 (01)	E&S	Creates awareness about environment, its need and protection for a sustainable future
216.	Samskrtsahityasa miksha-II (Prose and Applied Grammar)	SKT 2 A08(01)	E&S	Creates awareness about environment, its need and protection for a sustainable future
217.	Samskrtsahityasa miksha-III (Drama and Alankara)	SKT 3 A 09 (01)	E&S	Creates awareness about environment, its need and protection for a sustainable future
218.	Samskrtsahityasa miksha-IV (History of Sanskrit Literature, Kerala Culture and Translation)	SKT 4 A 10 (01)	E&S	Creates awareness about environment, its need and protection for a sustainable future
219.	Indian Constitution and Politics: Basic Features	ICP1 CO1		To convey the students - Salient features of the Constitution of India, the





				fundamental rights, fundamental duties and HV, G implementation of the Directive Principles of State Policy, Amendment of the Constitutional Powers and Procedures
220.	Indian Constitution and Politics: Governmental Structures	ICP2CO2	HV	To convey students about Governmental Structures and Functions
221.	Indian Constitution and Politics: Political Dynamics	ICP3CO3	HV	To convey students the moral background of Political Parties and their Functions
222.	Indian Constitution and Politics : Decentralisation	ICP4CO4	HV	Decentralisation, local governance and Federal dynamics
223.	Indian Constituion and Politics: Basic Features and Governmental Structures	ICP1(2)CO1	HV, G	To convey fundamental rights, duties and DPSP of Indian constitution, recall central and State policies, enable to make use of legal directions in developing solutions to societal issues.
224.	Indian Constitution and Politics: Federalism, Decentralisation and Political Dynamics	ICP4(3)CO2	G, HV, E&S	To impart knowledge about federal system of nation, Socio-economic rights, rights of sexual





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				minorities and minority sections
225.	Environmental Studies	AUD1E01	E&S	Creates awareness about various aspects of environment, its conservation and need.



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