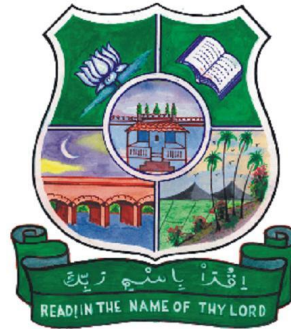


HAJEE KARUTHA ROWTHER HOWDIA COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University, Madurai.)

UTHAMAPALAYAM - 625 533



Relevance of Curriculum (UG) to the Local, National, Regional, Global developmental needs




Principal
PRINCIPAL
Hajee Karutha Rowther Howdia College
(Autonomous)
UTHAMAPALAYAM-625533.

Course Code	Course Title	Relevance	Description
B.A. Tamil			
18UTAC11	மரபு-புதுக்கவிதையும் சிறுகதையும்	National	The changes in poetry and short stories throughout the ages and remarkable works in Tamil literature.
18UTAC12	இலக்கணம் : நன்னூல் எழுத்ததிகாரம்	National	Knowledge about the Tamil grammar.
18UTAC21	புதினமும் நாடகமும்	National	To learn about the general structure of novel and drama literature and remarkable Tamil novels and dramas.
18UTAC33	பேச்சு, எழுத்துக்களை	Global	Knowledge about speech and writing skills and to develop in specific areas.
18UTAS31	Computer fundamentals and applications	Global	Knowledge about fundamentals of computer and to apply the knowledge.
18UTAC43	திறன் மேம்பாடும் படைப்பாற்றல் வெளிப்பாடும்	Global	To develop the creative skills in students
18UTAC52	காப்பிய இலக்கியம்	Regional	Knowledge in remarkable Tamil epics
18UTAC53	சமயங்களும் தத்துவங்களும்	Global	Knowledge about spiritual and personal development through religion

B.A. Arabic

17UARC11	Prose I	National	Analysis of different types of sentence constructions in Arabic
17UARC12	Grammar I	National	Understanding Grammar rules to write and speak without errors
17UARC13	Seerath I	Global	Knowledge of Biography of Prophets for inspiration and language development
17UARA11	Arabic Based Computer Skills I	Global	Development of Computer typing skills in Arabic with knowledge of Arabic Software applications
17UARC21	Prose II	National	Analysis of different types of sentence constructions in Arabic
17UARC22	Grammar II	National	Understanding Grammar rules to write and speak without errors
17UARC23	Seerath II	Global	Knowledge of Biography of Prophets for inspiration and language development
17UARA21	Arabic Based Computer Skills II	Global	Development of Computer typing skills in Arabic with knowledge of Arabic Software applications
17UARC31	Prose III	National	Analysis of different types of sentence constructions in Arabic
17UARC32	Grammar III	National	Application of Grammar rules to write and speak without errors
17UARC33	Seerath III	Global	Knowledge of Biography of Prophets for inspiration and language development
17UARA31	Arabic for Communication	Global	Development of Communication skills in Arabic
17UARC41	Prose IV	National	Analysis of different types of sentence constructions in Arabic
17UARC42	Grammar IV	National	Application of Grammar rules to write and speak without errors

17UARC43	Seerath IV	Global	Knowledge of Biography of Prophets for inspiration and language development
17UARA41	Commercial Arabic	Global	Writing letters and preparation of documents in Arabic
17UARC51	Quran	Global	Understanding the brevity and eloquence of the language of the Quran
17UARA52	Hadith	Global	Understanding the brevity and eloquence of the sayings of the Prophet
17UARA53	Seerath V	Global	Knowledge of Biography of Prophets for inspiration and language development
17UARA54	Contribution of Indians to Arabic language and Literature	National	Knowledge of the literary contributions of Indian writers to Arabic
17UARS51	Translation Skills I	Global	Application of the knowledge of Arabic Grammar and construction to Translating to and from Arabic
17UARC61	Poetry	Global	Understand the nuances in Arabic poetry
17UARA62	Seerath VI	Global	Knowledge of Biography of Prophets for inspiration and language development
17UARA63	History of Arabic Literature	Global	Knowledge of the different periods in the history of Arabic literature
17UARS61	Translation Skills II	Global	Application of the knowledge of Arabic Grammar and construction to Translating to and from Arabic
B.A. English			
14UENC12	Fiction	Global	Understand the novelists of various ages
14UENA11	Literary Forms	Global	Understand and analyse various literary forms

14UENC22	Indian Writing in English	National	Familiarity towards texts originally written in English and the translated works in English
14UENN21	English Speaking Skills II	Local	Develop strategies for vocabulary development
14UENA31	Advanced English Grammar	Global	Identify the basic grammatical rules, and usages
14UENS32	Presentation Skills	Regional	Demonstrate relevant skills to deliver a presentation with clarity and precision
14UENC42	Twentieth Century English Literature	Global	Relate the thoughts and expressions of Modern writers with the prevailing cultural scenario
14UENS41	Creative Writing	Global	Practice original and individual style of writing
14UENC53	New Literatures in English	Global	Examine the content and form of divergent genres across the Commonwealth countries
14UENC61	Shakespeare	Global	Describe the general elements associated with the time and plays of Shakespeare
14UENC63	Translation Theory and Practice	Regional	Critically apply theoretical frameworks to the creation of translation
14UENC64	Literary Criticism II	Global	Interpret a text by incorporating modern theories and locate the primary characteristics of a theory in a text
14UENC64	English for Employment	National	Identify the common errors in sentences and restate those with correct patterns
17UENC13	Indian Writing in English	National	Identify the aesthetics of Indian Writing in English
17UENN11	English Speaking Skills I	Local	Enhance Listening, Speaking, Reading and Writing Skills
17UENA31	History of English Literature I	Global	Delineate literary periods, major writers, genres, etc.

17UENC13	Indian Writing in English	National	Identify the aesthetics of Indian Writing in English
17UENN11	English Speaking Skills I	Local	Enhance Listening, Speaking, Reading and Writing Skills
17UENS31	Word Power	Global	Ability to communicate an action or a sequence clearly
17UENC42	Phonetics and Spoken English	Global	Distinguish the major dimensions of the voice from articulatory viewpoints
17UENC52	Women's Writings in English	Global	Examine the new perspectives on gender relations
17UENC53	Journalism and Mass Communication	National	Evaluate different channels of mass media as an integral part of ethical practice
17UENC54	English Language Teaching	National	Awareness of language structures and ability to teach English language skills
17UENE51	Literary Criticism I	Global	Interpret a work of art by juxtaposing aesthetic and theoretical values
17UENC61	Shakespeare	Global	Identify and appreciate the major themes and techniques of Shakespeare's plays
17UENC62	Translation Studies	National	Demonstrate a good knowledge of key concepts, issues, and theories of translation
17UENC64	English for Competitive Examinations	Regional	Develop English language skills, grammar, writing and vocabulary
17UENS61	Job Seeking Skills	Regional	Identify the resources and opportunities in align with viable career options
B.A. History			
14UHIC11	History of India Up to 1206 A.D.	National	Traces the History of Ancient India and its significance.

14UHIC12	History of Tamil Nadu Up to 1565a.D.	Regional	Evaluates the Sangam Age and administration under different Tamil dynasties.
14UHIA11	Modern Governments - I	National	Analyses the present system of Governments in India.
14UHN11	Freedom Movement In India, 1885-1947 A.D.	National	Evaluates the rise of Nationalism, establishment of Indian National Congress and the movements led to India's Independence.
14UHIC21	History of India, 1206- 1707 A.D.	National	Imparts the knowledge about the rule of Sultans of Delhi and Mughals in Medieval India.
14UHIC22	History of Tamil Nadu, 1565 – 1967 A.D.	Regional	Assess the life of the Tamils in the medieval and Modern period
14UHIA21	Modern Governments - Ii	Global	Enumerates the functions of Government in Switzerland.
14UHN21	Constitution of India	National	Analyses the functions of Constituent Assembly and administrative setup in India based on Indian Constitution.
14UHIC31	History of India, 1707 – 1885 A.D	National	Traces the decline of the Mughals and the rise of British rule in India.
14UHIC32	History of Europe, 476 – 1453 A.D.	Global	Enables to understand the transformation of Europe from ancient period to medieval period.
14UHS31	Panchayat Raj	National	Assess the evolution of the Panchayat Raj Institutions in India.
14UHIC41	National Movement in India, 1885-1947a.D.	National	Enumerates the rise of Nationalism and the movements led to India's Independence.
14UHIC42	History of Europe 1453 – 1789 A.D.	Global	Enables to understand the European polity and Culture and their impact within and outside Europe.
14UHIC51	History of Europe ,1789-1914 A.D.	Global	Analyses the importance of the French Revolution and the rivalry between the super powers of Europe.

14UHIC52	History of The Arabs, 570 – 1258 A.D.	Global	Describes the rise of Islam and its impact in the History of the World.
14UHIC53	Elements of Historiography	National	Analyses the life and contributions of the eminent Historians of India.
14UHIC54	Constitutional History of India, 1773-1950 A.D.	National	Analyses the proceedings of Constituent Assembly and execution of constitution in Independent India.
14UHIE51	History of The U.S.A, 1865-1945 A.D.	Global	Makes one to understand the Modern History of the U.S.A. as a Global power.
14UHIC61	India Since Independence	National	Narrates the developments in India since 1947.
14UHIE61	History of Science and Technology Since 1453 A.D.	Global	Enables to understand the scientific innovations taken place across the continents
14UHIE62	International Relations, 1914-2000 A.D.	Global	Analyses the relations among the countries of the World and World Organisations.
14UHS61	Islamic Architecture	National	Makes to acquire knowledge about the development of Islamic Architecture in India.
17UHIC11	History of India Up to 1206 A.D.	National	Traces the rule of the prominent monarch of Ancient India.
17UHIC12	History of Tamil Nadu up to 1565A.D.	Regional	Evaluates the life of the Tamils under Tamil Monarch.
17UHIA11	Modern Governments - I	Global	Analyses the present system of Governments in various countries of the World.
17UHN11	Freedom Movement in India, 1885-1947A.D.	National	Evaluates the rise of Nationalism, establishment of Indian National Congress and formation of the Indian state.
17UHIC21	History of India, 1206- 1707 A.D.	National	Imparts the knowledge on the rule of the Muslim in medieval India.
17UHIC22	History of Tamil Nadu, 1565 – 1967 A.D.	Regional	Assess the decline of Vijayanagar rule, the rise of British rule and the administration in Tamil Nadu.

17UHIC23	History of the U.S.A, 1865-1945 A.D.	Global	Explains the emergence of the state of USA as a global power.
17UHIA21	Modern Governments - II	Global	Enumerates the functions of Government in Switzerland.
17UHN21	Constitution of India	National	Analyses the works of Constituent Assembly and administrative system in Indian Democracy.
17UHIC31	History of India, 1707 – 1885 A.D.	National	Traces the decline of the Mughals and the rise of British rule in India.
17UHIC32	History of Europe, 476 – 1453 A.D.	Global	Enables to understand the transformation of Ancient Europe to Medieval Europe.
17UHS31	Panchayat Raj	National	Defines the evolution of the Panchayat Raj institutions in India.
17UHIC42	History of Europe, 1453 – 1789 A.D.	Global	Enables to understand the European polity, culture and their impact within and outside Europe.
17UHIC51	History of Europe, 1789-1914 A.D.	Global	Analyses the French Revolution and the rivalry between super powers of Europe.
17UHIC52	History of the Arabs, 570 – 1258A.D.	Global	Describes the rule of the Caliphs of Islam in the Islamic World.
17UHIC55	Public Administration	National	Explains the importance of different administrative systems in India.
17UHIE51	Constitutional History of England up to 1603 A.D.	Global	Traces the evolution of early Constitutional Developments in England.
17UHIC61	India Since Independence	National	Recognizes the contemporary developments in India since 1947.
17UHIC63	History of Science and Technology since 1453A.D.	Global	Enables to understand the importance of Science and Technology in the day today affairs of the World.
17UHIC65	Journalism	Global	Enables to understand a variety of Mass Media products and its uses in the World.

17UHIE61	International Relations, 1914 -2005 A.D.	Global	Analyses the importance of International Politics and World Organizations.
17UHIS61	Islamic Architecture	National	Provides knowledge about the History of Islamic Architecture in India.
B.A. Economics			
14UECN21	Demography	National	Knowledge about population growth and its related issues
14UECS31	Entrepreneurship Development	Regional	Exposure to entrepreneurial skill
14UECC42	Banking	Global	Knowledge about the banking operations
14UEC51	International Economics	Global	Theoretical knowledge about balance payment and financial institutions
14UEC53	Indian Economy	National	Awareness about the basic structure of our economy
14UECE61	Environmental Economics	Global	Awareness about the importance of natural resources and its conservation
17UECN21	Demography	National	Knowledge about population growth and its related issues
17UECS31	Entrepreneurship Development	Regional	Exposure to entrepreneurial skill
17UECC43	Industrial Economics	National	Understanding the importance of industrialisation and solving industrial problems
17UECC51	International Economics	Global	Theoretical knowledge about balance payment and financial institutions
17UECC53	Indian Economy	National	Awareness about the basic structure of our economy
17UECE51	Foreign Exchange	Global	Knowledge about foreign exchange and its regulatory Acts

17UECC62	Agricultural Economics	National	Exposure to agricultural problems and prospects
17UECC63	Environmental Economics	National	Awareness about the importance of natural resources and its conservation
17UECC64	Labour Economics	Global	To understand the efforts made in solving various labour Problems and the significance of Human resources
B.Sc. Physics			
13UPHC11	Mechanics and Relativity	Global	Knowledge about Mechanics of particles
13UPHS11	Properties of Matter	Global	Fundamentals of object properties
13UPHS12	C-PROGRAMMING - I	National	Knowledge to improve programming skills
13UPHC21	Electricity	Global	Awareness about electrical components
13UPHS21	Thermal Physics	Global	Fundamental concepts of thermal properties of objects
13UPHS22	C-PROGRAMMING - II	National	Knowledge to improve programming skills
13UPHC31	Electromagnetism	Regional	Theoretical Principles of electric supply
13UPHC41	Optics and Spectroscopy	Global	Understanding of properties of light
13UPHC51	Modern Physics	Global	Exposure to the recent developments of physics
13UPHC52	Nuclear physics	Global	Awareness to the studies atomic nuclei and their constituents and interactions
13UPHC51	Electronics - I	Regional	Application comprises the physics, engineering, technology
13UPHS51	Applied physics I	Regional	Knowledge to improve applications of physics in everyday life

13UPHC62	Solid state Physics	Global	Study of rigid matter, or solids, through methods such as quantum mechanics, crystallography,
13UPHC63	Electronics - II	Regional	Application comprises the physics, engineering, technology
13UPHS51	Applied physics II	Regional	Knowledge to improve applications of physics in everyday life
14UPHS12	Astrophysics-I	Global	A branch of space science that applies the laws of physics and chemistry to explain the birth, life and death of stars, planets, galaxies
14UPHS22	Astrophysics-II	Global	A branch of space science that applies the laws of physics and chemistry to explain the birth, life and death of stars, planets, galaxies
14UPHC61	Theoretical Physics	Global	Employs mathematical models and abstractions of physical objects and systems
17UPHC61	Classical and Statistical Mechanics	Global	Knowledge of physical theory describing the motion of macroscopic objects
17UPHC62	Condensed Matter Physics	Global	Deals with the macroscopic and microscopic physical properties of matter
17UPHE61	Digital Electronics	Global	Application comprises the physics, engineering, technology
17UPHC6P	Major Practical-III	National	Knowledge of working of objects
17UPHC6Q	Major Practical-IV	National	Awareness of electronic circuits working
17UPHC6R	Major Practical-V	National	Deals with working of various electronic components
B.Sc. Chemistry			
14UCHC11	General Chemistry - I	Global	Fundamental knowledge of organic chemistry, laboratory safety and gaseous state.

14UCHS11	Perfume chemistry and sugar technology	Regional	Basic knowledge and skills about sugar technology and production of perfumes.
14UCHS12	Fundamentals in Chemistry-I	Global	Fundamental knowledge on mathematical concepts involved in chemistry and naming of chemical compounds.
14UCHA11	Organic, Inorganic and Physical Chemistry-I	Global	Fundamentals of organic, inorganic and physical chemistry concepts.
14UCHN11	Industrial Chemistry	National	Exposure to industry based chemistry.
14UCHC21	General Chemistry - II	Global	Exposure to the fundamental of chemical bonding, periodic properties and atomic structure.
14UCHS21	Leather technology and paper and pulp technology	Global	Develop skills on underlying processes used in leather and paper industries.
14UCHS22	Fundamentals in Chemistry-II	Global	Fundamental knowledge on chemical reactions, colloids and qualitative chemical analysis.
14UCHA21	Organic, and Physical Chemistry-I	Global	Applications of organic and physical chemistry concepts.
14UCHN21	Drugs and cosmetics	National	Exposure to the chemistry behind the drugs and cosmetic products.
14UCHC31	Physical Chemistry-I	Global	Fundamental of liquid state, concepts of adsorption and catalysis.
14UCHA31	Organic Physical Chemistry-II	Global	Knowledge about the underlying organic and physical chemistry concepts.
14UCHC41	Inorganic Chemistry-I	Global	Exposure to metallurgical processes and nuclear chemistry.
14UCHA41	Organic Physical Chemistry-III	Global	Applications of organic and physical chemistry concepts.

14UCHC51	Organic Chemistry-I	Global	Underlying concepts of organic chemistry and classification of organic compounds.
14UCHC52	Physical chemistry -II	Global	Basic idea about the concepts of thermodynamics, chemical kinetics and phase rule.
14UCHC53	Inorganic, analytical and Applications of Computers in Chemistry	National	Exposure to non-aqueous solvents, bio-inorganic chemistry, analytical chemistry and application of computer in chemistry.
14UCHS51	Pharmaceutical and Medicinal chemistry	Regional	Learn about the synthesis of new drugs and their interactions with various receptors.
14UCHC61	Organic chemistry -II	Global	Knowledge about the principles and applications of various spectroscopic techniques in organic chemistry, structural elucidations of natural products.
14UCHC62	Physical Chemistry - III	Global	Learn about the basics of electrochemistry, photochemistry and group theory.
14UCHC63	Applied Chemistry	Regional	Exposure to the applications of chemistry in various fields viz., water treatment, rubber pesticides, cement, petrochemicals and fertilizers.
14UCHS61	Medical Laboratory Technology & Clinical Biochemistry	National	Knowledge about laboratory safe clinical laboratory standard and analytical procedures.
14PCHC11	Introduction to organic reactions	Global	Basic of organic reactions and develop the organic synthetic aspects.
14PCHC12	Structure and bonding	Global	Evaluate the geometry and properties of different inorganic compounds.
14PCHC13	Thermodynamics, chemical equilibrium and electrochemistry	Global	Basic idea about the concepts of thermodynamics, chemical equilibrium and electrochemistry.

14PCHE11	Medicinal and pharmaceutical chemistry	Regional	Learn about the synthesis of new drugs and their interactions with various receptors.
14PCHC21	Stereochemistry and organic reactions	Global	Fundamental concepts of stereochemistry and underlying mechanism of various organic reactions.
14PCHC22	Coordination and organometallic chemistry	Global	Knowledge about the structure and reactions of coordination and organometallic compounds.
14PCHC23	Group theory and spectroscopy	Global	Acquire adequate knowledge on the fundamentals of group theory concepts and spectroscopy.
14PCHE21	Analytical chemistry	National	Develop skills to utilize analytical techniques in chemical analysis
14PCHC31	Organic Spectroscopy and Natural products	Global	Knowledge about the principles and applications of various spectroscopic techniques in organic chemistry, structural elucidations of natural products.
14PCHC32	Inorganic Spectroscopy and Nano chemistry	Global	Exposure to the applications of inorganic spectroscopic techniques and Nano chemistry.
14PCHC33	Quantum, Nano and Macromolecular Chemistry	Global	Knowledge about the formulation of quantum mechanics and macromolecular chemistry.
14PCHE31	Applications of Chemistry	Regional	Understand the strategies for purification of organic compounds and knowledge about vitamins, alkaloids, antibiotics and water chemistry.
14PCHC41	Biomolecules, Rearrangements and Synthetic methods	Global	Understand the mechanism of some selective chemical reactions and awareness about the importance of biomolecules.
14PCHC42	Nuclear and Analytical Chemistry	National	Develop skills to utilize electrochemical analytical techniques and knowledge about nuclear chemistry.

14PCHC43	Chemical Kinetics, Surface, Biophysical and Photochemistry	Global	Learn about the fundamentals of chemical kinetics, surface, biophysical and photochemistry.
14PCHE41	Polymer Chemistry	National	Exposure to the structure, synthesis, properties and applications of various polymers.
17UCHC11	General Chemistry - I	Global	Fundamental knowledge of organic chemistry, laboratory safety and gaseous state.
17UCHS11	Fundamentals in Chemistry-I	Global	Fundamental knowledge on mathematical concepts involved in chemistry and naming of chemical compounds.
17UCHA11	Organic, Inorganic and Physical Chemistry-I	Global	Fundamentals of organic, inorganic and physical chemistry concepts.
17UCHN11	Industrial Chemistry	National	Exposure to industry based chemistry.
17UCHC21	General Chemistry - II	Global	Exposure to the fundamental of chemical bonding, periodic properties and atomic structure.
17UCHS21	Fundamentals in Chemistry-II	Global	Fundamental knowledge on chemical reactions, colloids and qualitative chemical analysis.
17UCHA21	Organic, and Physical Chemistry	Global	Applications of organic and physical chemistry concepts.
17UCHN21	Drugs and cosmetics	National	Exposure to the chemistry behind the drugs and cosmetic products.
17UCHC31	Physical Chemistry-I	Global	Fundamental of liquid state, solid state, photochemistry, concepts of adsorption and catalysis.
17UCHA31	Organic, Inorganic and Physical Chemistry-II	Global	Knowledge about the underlying organic and physical chemistry concepts.

17UCHC41	Inorganic Chemistry	Global	Exposure to metallurgical processes, bioinorganic chemistry and nuclear chemistry.
17UCHA41	Organic Physical Chemistry-II	Global	Applications of organic and physical chemistry concepts.
17UCHC51	Organic chemistry	Global	Underlying concepts of aromatic hydrocarbons, halogen, nitro, amino compounds and stereoisomerism.
17UCHE51	Physical chemistry and computers in chemistry	Global	Basic idea about the concepts of phase rule, order of reactions, thermodynamics and applications of computer in chemistry.
17UCHE52	Polymer Chemistry	National	Knowledge about polymers, types, properties, uses and molecular weight determination.
17UCHS51	Organic and Pharmaceutical chemistry	Regional	Learn about the concepts in carbohydrates, hormones, vitamins, chemotherapy, antibiotics and anaesthetics.
17UCHC61	Organic and analytical chemistry	Global	Deliberate the applications of spectroscopy, analytical chemistry and basic ideas of natural products.
17UCHE61	Physical Chemistry - II	Global	Learn about the basics of electrochemistry, ionic equilibrium, group theory and molecular spectroscopy.
17UCHE62	Green Chemistry and Nanotechnology	Global	Understand the principles of green chemistry, nanomaterials, its properties, preparations and applications.
17UCHS61	Medical Laboratory Technology & Clinical Biochemistry	National	Knowledge about laboratory safe clinical laboratory standard and analytical procedures.
B.Sc. Mathematics			
14UMAA41	Programming in C++	Local	To develop object – oriented programming skills

14UMAA51/1 4UMAA61	Statistics I and II	Regional	Knowledge in making statistical analysis on a data
14UMAC53	Numerical Analysis	National	Develop skills to solve algebraic, transcendental, differential and integral equations numerically
14UMAC54	Differential Equations and Laplace Transforms	Global	Develop skills to solve differential equation in various discipline
14UMAC64	Operational Research	Global	Provides Scientific approach to aid decision making and knowledge in formulation of linear programming problem and use different technique to solve it also analyse networks using PERT and CPM
17UMAA31	Programming in C	Local	Developing the programming skill to serve in software and communication field
17UMAC53	Real Analysis	Global	Distinguish continuity and uniform continuity. Develop Knowledge on Connectedness and Compactness
17UMAC63	Graph Theory	National	Deals with Graph theoretical concepts that help to model real life situations
17UMAS61	Mathematics for Competitive Examinations	National	Provides mathematical aptitude techniques in solving profit and loss, simple and compound interest problems which helps to succeed in competitive exams
17UMAC11	Calculus	National	Develop problem solving skills using derivatives and partial derivatives
B.Sc. Zoology			
14UZYS11	Biostatistics	National	Fundamental Knowledge in Research Methodologies

14UZYN11	Human Biology	National	Knowledge about principles and mechanism of Human Physiology
14UZYS21	Immunology	Global	Underlying mechanism of immune system and vaccination
14UZYS22	Fisheries Biology	National	Practices in aqua farming and management.
14UZYN11	Ornamental Fish Culture	Regional	Knowledge about culture of attractive, colourful fishes of various characteristics, reared in a confined aquatic system
14UZYC31	Cell Biology	Global	Fundamental knowledge on cellular structures and its functions.
14UZYC41	Developmental Biology	Global	Attempts to understand molecular, genetic, cellular and integrative aspects of development of an organism from embryo level
14UZYC51	Ecology	National	Fundamental concepts of ecosystem and its functions
13UZYC52	Microbiology	National	Knowledge about microbes and its role
13UZYC53	Genetics & Molecular Biology	Global	Study of genetic, structure and function of living system at the molecular level
13UZYS51	Poultry Science	Regional	To gain knowledge on Poultry rearing practice and maintenance system
13UZYC61	Biotechnology	National	Knowledge about Principles mechanism and applications of bio techniques
13UZYC62	Biochemistry & Physiology	Global	Broadened our understanding of biochemical changes related to physiological alteration in the body.
13UZYC63	Evolution	National	Study of origin of life and its principles
13UZYS61	Economic Entomology & Sericulture Technology	Regional	Rural Development through Silkworm rearing and knowledge about beneficial and harmful insect class

17UZYS11	Fisheries Biology	National	Application practices in aqua farming for Exposures to aquaculture food products
17UZYN11	Commercial Zoology	Regional	To know all about animal related economy and rearing knowledge
17UZYS21	Poultry Science	Local	To import knowledge on Poultry rearing and maintenance system
17UZYN21	Ornamental Fish Culture	Regional	Knowledge about culture of attractive, colourful fishes of various characteristics, reared in a confined aquatic system
17UZYC31	Cell & Molecular Biology	Global	Study of structure and function of cell at the molecular level
17UZYC41	Developmental Biology	Global	Attempts to understand molecular, genetic, cellular and integrative aspects of development of an organism from embryo level
17UZYA41	Economic Zoology	Regional	To know all about animal related economy and rearing knowledge
17UZYC51	Ecology& Evolution	National	Fundamental concepts of ecosystem and its functions and about origin of life.
17UZYC52	Microbiology	National	Knowledge about microbes
17UZYC53	Genetics & Biostatistics	National	Fundamental knowledge in research methodologies
17UZYS51	Immunology	Global	Underlying mechanism of immune system and vaccination
17UZYC61	Biotechnology	National	Knowledge about Principles mechanism and applications of bio techniques
17UZYC62	Biochemistry & Physiology	Global	Broadened our understanding of biochemical changes related to physiological alteration in the body.
17UZYS61	Economic Entomology& Sericulture Technology	Regional	Rural Development through Silkworm rearing and knowledge about beneficial and harmful insect class

14UBYA11	Algae, Fungi Bryophytes, Pteridophytes and Gymnosperms	Regional	Understand the difference and evolutionary development among the plant groups
14UBYA21	Cell Biology, Biotechnology, Plant Breeding, Genetics and Evolution	Global	Impart the learners the knowledge on Cell organelles, Advancement in plants and its applications.
14UBYA31	Taxonomy of Angiosperms, Embryology, Horticulture and Medicinal plant.	Global	Develop the skill of learners to identify the Plants and its uses.
14UBYA41	Plant Physiology, Forestry, Applied Botany, Environmental Biology and Biodiversity	Global	Make the learners aware of environment, biodiversity and applied botany
17UBYA11	Algae, Fungi Bryophytes, Pteridophytes and Gymnosperms	Global	Understand the difference and evolutionary development among the plant groups
17UBYA21	Microbiology and Pathology, Plant Anatomy, Genetics, Plant Breeding and Evolution	Global	Develop the knowledge of learners on basic plant botany and microbes and its infections
17UBYA31	Taxonomy of Angiosperms, Economic botany, Embryology, Horticulture and Medicinal plant.	Global	Develop the skill of learners to identify the Plants and its uses.
17UBYA41	Plant Physiology, Forestry, Applied Botany, Environmental Biology and Biodiversity	Global	Making students to aware on physiological activities of plants and environment
B.Sc. Computer Science			

14UCSC11	Programming in C	Global	Able to implement the algorithms and draw flowcharts for solving Mathematical and Engineering problems.
14UCSC31	Programming in Java	Global	Develop event driven Graphical User Interface (GUI) programming using applets and swings
14UCSC41	Data Base Management Systems	Global	Identify, analyse and define database objects, enforce integrity constraints on a database using RDBMS.
14UCSC4P	RDBMS Lab	Global	Able to query multiple tables using joins and aggregate functions Demonstrate on-delete-cascade and on-update-cascade concepts
14UCSS42	Data Structures & Applications	Global	Utilize BFS, DFS, searching, sorting, hashing and files concepts to develop various applications.
14UCSE51	Computer Networks	Global	Apply Media access control and utilize wired and wireless networks
14UCSS41	Quantitative Aptitude	Global	Helps the student to appear National level examination such as RRB, NET, IBPS, UPSC exams
14UCSC61	Computer Graphics	Global	Apply concepts of clipping and visible surface detection in 2D and 3D viewing, and Illumination Models.
14UCSC52	Software engineering	Global	Expose project planning, analysis of software project, understand the quality concepts for ensuring the functionality of the software to satisfy the regional needs
14UCSC5P	Dot Net Programming	Global	To develop web application using ASP.NET
14UCSC62	Web Technology and Design	Global	Acquire knowledge to design the website
14UCSC63	Multimedia Technology	Global	To attain knowledge for developing multimedia products by acquiring, integrating and producing the various multimedia elements

17UCSC11	Programming in C	Global	Able to implement the algorithms and draw flowcharts for solving Mathematical and Engineering problems.
17UCSC31	Programming in Java	Global	Develop event driven Graphical User Interface (GUI) programming using applets and swings
17UCSC41	Data Base Management Systems	Global	Identify, analyse and define database objects, enforce integrity constraints on a database using RDBMS.
17UCSC4P	RDBMS Lab	Global	Able to query multiple tables using joins and aggregate functions Demonstrate on-delete-cascade and on-update-cascade concepts
17UCSS42	Data Structures & Applications	Global	Utilize BFS, DFS, searching, sorting, hashing and files concepts to develop various applications.
17UCSC53	Computer Networks	Global	Apply Media access control and utilize wired and wireless networks
17UCSS41	Quantitative Aptitude	Global	Helps the student to appear National level examination such as RRB, NET, IBPS, UPSC exams
17UCSC61	Computer Graphics	Global	Apply concepts of clipping and visible surface detection in 2D and 3D viewing, and Illumination Models.
17UCSC52	Software engineering	Global	Expose project planning, analysis of software project, understand the quality concepts for ensuring the functionality of the software to satisfy the regional needs
17UCSC5P	Dot Net Programming	Global	To develop web application using ASP.NET
17UCSC62	Web Technology and Design	Global	Acquire knowledge to design the website
17UCSC63	Multimedia Technology	Global	To attain knowledge for developing multimedia products by acquiring, integrating and producing the various multimedia elements

17UCSE62	Mobile Application Development	Global	Depict students to grab the opportunities on Mobile APP Development
B. Com.			
14UCRC21	Financial accounting II	National	Developing the skills in preparing consignment, joint venture, and depreciation accounts
14UCRC22	Business organisation and management	National	Develop skills that are critical to running business operations efficiently and effectively
14UCRC31	Business statistics	National	Understanding the basic concepts in statistics
14UCRC32	Cost accounting	National	Explains the purpose of cost accounting
14UCRC34	Business communication	Global	Familiar with the practices of business letter writing
14UCRC42	Management accounting	National	Knowledge about different types of activity based management tools
14UCRS41	Arithmetic ability	Global	Developing the mathematical skill for competitive examination
14UCRC53	Auditing	National	To acquire the knowledge of fundamental audit techniques
14UCRC62	Financial management	National	Understanding the financial management concepts and tools of finance.
14UCRC63	Income tax II	National	To develop the skill in assessing the income of individual, firm. companies
17UCRC11	Financial Accounting	National	Understanding the basic knowledge in accounting methods followed for the preparation of financial statements of sold proprietary concerns.
17UCRC12	Marketing Management	National	Fundamental concepts and basic principles adopted for marketing of the products

17UCRC34	Business law	National	To acquire knowledge about the regulations to be followed in the business.
17UCRS31	Ms office practical's	Global	To develop the digital skills.
17UCRC42	Management accounting	National	To know the flow of funds relating to operating, investing and financing activities of the business.
17UCRC31	Business statistics	National	Obtaining the basic knowledge in statistical concepts and tools for analysing the data.
17UCRC41	Business mathematics	Regional	Developing the knowledge in applying the mathematics in business
17UCRC52	Income tax law and practice	National	To acquire the knowledge in computing taxable and assessment of income
17UCRC55	Operations research	National	To understand the mathematical models to be used for analysis of problems in operations research relating to business decision making.
17UCRS51	Communicative skills	Global	To develop the oral and written communicative skill for carrier development
17UCRC61	Corporate accounting	National	To acquire the knowledge in the Valuation of goodwill, shares and also to know the method of merger and acquisition of business.
B.B.A.			
14UBAC11	Principles of Management	National	To develop a basic understanding about the management concepts
14UBAC12	Financial Accounting	National	To enable the students to gain basic knowledge and skill relating to fundamental accounting principles and practices.

14UBAS31	Personality Development	Regional	To help students understand the concept of all round development of personality.
14UBAC31	Business Law I	National	To develop a cadre of students by imparting professional knowledge and training considered pre-requisite for functioning of a Company Secretary.
14UBAC32	Entrepreneurship	National	In particular, the paper seeks to build the necessary competencies and motivation for a career in Entrepreneurship
14UBAC43	Management Accounting	National	The objective is to introduce the basic concepts in accounting which can be applied in managing the funds of a firm.
14UBAC52	Marketing Management	Local	It is designed to serve as an introduction to the theory and practice of marketing.
14UBAC53	Human Resource Management	National	How an organization acquires, rewards, motivates, uses, and generally manages its people effectively.
14UBAC21	Business Environment	Regional	To impart a basic knowledge in business strategies, problems and analyse the environmental factors.
14UBAA21	Money and Banking	Regional	To develop the students to understand the structure of financial markets, money and its components and how interest rates are determined the banking system, the Federal Reserve System and the role of monetary policy.
17UBAN11	Business Administration	National	To enable the students to know and understand the basic principles of business
17UBAA21	Economic Development of India	Global	To familiarize the students with the basic concepts and tools in Economics.

17UBAC33	Cost Accounting	National	To impart the learners, the knowledge of cost accounting principles. To enable the learners to ascertain and control material, labour and overhead costs.
17UBAC35	Organisational Behaviour	Regional	It enables the students to understand the individual's contribution to organisational behaviour and performance by recognizing the importance of personality, perception, Attitudes and learning.
17UBAA41	Business Mathematics	National	To make learners understand the application of mathematics in business
17UBAC51	Production and Operations Management	Regional	Understand the strategic role of operations management in creating and enhancing a firm's competitive advantages
17UBAC55	Strategic Management	Regional	To Understand the Basic Issues and Concepts related to Strategic Management and Learn in Detail the most relevant and Up to date Methodologies and Tools to address these Issues.
17UBAC61	Management Information System	Regional	the conceptualization of Information Systems as structured configurations of elements behaving collectively to serve the information needs of an organization.
17UBAC63	Total Quality Management	National	Early mistake recognition, Mistake prevention as a preventive step, Avoidance of wastes.
17UBAE61	Managerial skills	Local	It provides a clear statement of intended learning goals and student learning outcomes.
B.Com. CA			
14UCAC11	Financial Accounting I	Global	Basic concepts of Financial Accounting

14UCAC12	Introduction to PC software and MS Office Theory	Global	Fundamental concepts of computer software and MS Office tools.
14UCAC1P	Introduction to PC software and MS Office- Lab	Global	Utilize the MS-Office package tools
14UCAN11	Business Accounting	Global	Knowledge about the business accounting.
14UCAC31	Financial Accounting III	Global	Gain the knowledge in Financial Accounting III
14UCAC32	Database Management System	Global	Understanding the Database concepts.
14UCAC3P	Database Management System - Lab	Global	Gain the knowledge in SQL and MS access tools.
14UCAA31	Business Statistics	Global	Gain the knowledge about the Statistical methods
14UCAC41	Cost and Management Accounting	Global	Fundamental concepts of Cost and Management Accounting
14UCAA41	Business Mathematics	Global	Understand the concept of Business Mathematics.
14UCAA51	Business Law I	Global	Obtain the knowledge in Business Law I
14UCAC42	Visual Programming using VB	Global	Fundamental concepts of visual basic tool.
14UCAC4P	Visual Programming Lab	Global	Obtain the knowledge in visual basic application tool.
14UCAC51	Income Tax Law and Practice I	Global	Understand the concepts of taxation law.
14UCAE51	Corporate Accounting (E)	Global	Obtain the knowledge in Corporate Accounting
17UCAC11	Financial Accounting -I	Global	Basic concepts of Financial Accounting
17UCAC22	Programming in C	Global	Fundamental concepts of C and its implementations.
17UCAC2P	Programming in C - Lab	Global	Develop the skills to utilize the c programing concepts.

17UCAN21	Retail Marketing -NME	Global	Knowledge about the retail marketing
17UCAC31	Financial Accounting - III	Global	Gain the knowledge in Financial Accounting II
17UCAC33	Marketing Management	Global	Acquire adequate skills in Marketing Management concepts.
17UCAC34	Human Resource Management	Global	Gain the knowledge in Human Resource Management
17UCAC41	Cost and Management Accounting	Global	Understand the concepts of Cost and Management Accounting
17UCAC43	Partnership Accounts	Global	Fundamentals of Partnership Accounts
17UCAA41	Business Mathematics	Global	Obtain the knowledge in Business Mathematics
17UCAC52	Income Tax Law and Practice – I	Global	Obtain the knowledge in Income Tax Law and Practice.
17UCAC53	Internet and Web Design	Global	Understanding the basics of internet and html concepts.
17UCAC5P	Internet and Web Design – Lab	Global	Acquire adequate skills in html programming.
17UCAC63	Computer Networks	Global	Gain the knowledge in computer networks.
17UCAC64	Corporate Accounting - II	Global	Develop the fundamental concepts of Corporate Accounting.
B.Com. Banking			
14UCBC11	Commercial Banking	National	Observe commercial banks more important to economic development
14UCBC12	Financial Accounting I	Global	Facilitate the understanding of accounting work of a higher order from the fundamentals of financial accounting to the advanced level.
14UCBC21	Business Environment	Global	Comprehend the importance of the environment that affecting the business undertaking
14UCBC22	Financial Accounting II	Global	Develop skill related problem solving and critical thinking

14UCBC31	Marketing Management	Global	Impart the learners the concept and basic principles of Marketing
14UCBC32	Business Law	National	Gain Basic Knowledge of Law relating to business
14UCBC33	Advanced Accounting I	Global	Impart the learners to the knowledge of Branch and Hire Purchase Accounting
14UCBC34	Cost Accounting	Global	Impart the learners the knowledge of cost accounting principles
14UCBC35	Co-operative Banking	Regional	Understand how co-operative bank role play into balancing the Indian economy.
14UCBC41	Banking Law and Practice	National	Understand various functions of bank
14UCBC42	Principles of Management Accounting	Global	Impart the learners the knowledge on the tools used in Management Accounting
14UCBC43	Advanced Accounting II	Global	Make the learners acquaint with knowledge of accounting during dissolution amalgamation of firms, preparing Partnership Accounts
14UCBC44	Central Banking	National	Understand how central bank role play into balancing the Indian economy
14UCBC51	Income Tax Law and Practice I	National	Enable the learners to be familiar with the various terminologies of in Income Tax Act
14UCBC52	Entrepreneurial Development	National	Make the learners aware of Government support to entrepreneurs
14UCBC53	Corporate Accounting	Global	Develop the skill of learners in preparing Joint Stock Company accounts and during Amalgamation, Absorption and Reconstruction of companies
14UCBC54	Human Resource Management	Global	Introduce the concept of HRM to learners
14UCBC55	Service Marketing in Banks	National	Know various service marketing strategies

14UCBC61	Income Tax Law and Practice II	Global	Introduce the learners the concepts such as advance payment of tax, TDS
14UCBC62	Retail Management	Global	Study channels of retail management
14UCBC63	Financial Management	Global	Enable the learners to acquire skills in analysing capital structure, leverages, working capital management
14UCBC64	E-Commerce and E-Banking	Global	Know what is role of e-commerce in recent
14UCBC65	International Trade	Global	Understand how the basic principles of marketing are applied in a variety of diverse cultural, political, legal and economic environments
14UCBE61	International Banking	Global	Discuss how international banks more important to economic development
17UCBC11	Commercial Banking	National	Observe commercial banks more important to economic development
17UCBC12	Financial Accounting I	Global	Facilitate the understanding of accounting work of a higher order from the fundamentals of financial accounting to the advanced level.
17UCBC21	Business Environment	Global	Comprehend the importance of the environment that affecting the business undertaking
17UCBC22	Financial Accounting II	Global	Develop skill related problem solving and critical thinking
17UCBC31	Marketing Management	Global	Impart the learners the concept and basic principles of Marketing
17UCBC32	Business Law	National	Gain Basic Knowledge of Law relating to business
17UCBC33	Advanced Accounting I	Global	Impart the learners to the knowledge of Branch and Hire Purchase Accounting
17UCBC34	Cost Accounting	Global	Impart the learners the knowledge of cost accounting principles

17UCBC35	Co-operative Banking	Regional	Understand how co-operative bank role play into balancing the Indian economy.
17UCBC41	Banking Law and Practice	National	Understand various functions of bank
17UCBC42	Principles of Management Accounting	Global	Impart the learners the knowledge on the tools used in Management Accounting
17UCBC43	Advanced Accounting II	Global	Make the learners acquaint with knowledge of accounting during dissolution amalgamation of firms, preparing Partnership Accounts
17UCBC44	Central Banking	National	Understand how central bank role play into balancing the Indian economy
17UCBC51	Income Tax Law and Practice I	National	Enable the learners to be familiar with the various terminologies of in Income Tax Act
17UCBC52	Entrepreneurial Development	National	Make the learners aware of Government support to entrepreneurs
17UCBC53	Corporate Accounting	Global	Develop the skill of learners in preparing Joint Stock Company accounts and during Amalgamation, Absorption and Reconstruction of companies
17UCBC54	Human Resource Management	Global	Introduce the concept of HRM to learners
17UCBC55	Service Marketing in Banks	National	Know various service marketing strategies
17UCBC61	Income Tax Law and Practice II	Global	Introduce the learners the concepts such as advance payment of tax, TDS
17UCBC62	Retail Management	Global	Study channels of retail management
17UCBC63	Financial Management	Global	Enable the learners to acquire skills in analysing capital structure, leverages, working capital management

17UCBC64	E-Commerce and E-Banking	Global	Know what is role of e-commerce in recent
17UCBC65	International Trade	Global	Understand how the basic principles of marketing are applied in a variety of diverse cultural, political, legal and economic environments
17UCBE61	International Banking	Global	Discuss how international banks more important to economic development
17UCAC63	Computer Networks	Global	Gain the knowledge in computer networks.
17UCAC64	Corporate Accounting – II	Global	Develop the fundamental concepts of Corporate Accounting.
B.Sc. Biochemistry			
14UBCC11	Biomolecules	Regional	Knowledge about carbohydrate, protein, lipid, vitamins and nucleic acid
14UBCS11	Biostatistics	National	Knowledge about data, tabulation and correlation and regressions
14UBCS12	Nutrition	National	Understanding diet for different stages of development
14UBCN11	Health and Human Nutrition	Global	Knowledge about basic importance of health, human diseases and its causes
14UBCC21	Biochemical Techniques	Global	Biomolecules are separated by various biochemical techniques
14UBCS21	Medical Lab Technology	National	Understanding basics of biochemical diagnosis
14UBCS22	Pharmacology	Global	Knowledge about pharmacological indication by dose response
14UBCN21	Herbal Medicine	Regional	Development of traditional herbal system and herbal marketing
14UBCC31	Enzyme and Enzyme Technology	Regional	To improve skill about enzyme reaction and enzyme applications
14UBCC41	Metabolism	Global	Fundamental energetics of biochemical process

14UBCC51	Molecular Biology	Global	To develop skills to molecular process at cell level
14UBCC52	Microbiology	National	Knowledge about microbes and human diseases affected by microbes
14UBCC53	Immunology	Global	Underlying mechanism of immune system, immune diagnosis and vaccination
14UBCS51	Clinical Diagnostics	Regional	Understanding the test for normal and abnormal functions of liver, kidney and pancreas
14UBCC61	Biotechnology	Regional	Development of different new types of production by genetic engineering process
14UBCC62	Plant Biochemistry	National	Knowledge about plant mechanism and physiology
14UBCC63	Clinical Biochemistry	National	Knowledge about clinically assessing the laboratory indicators of physiologic condition and disease
14UBCC64	Food Technology	Regional	To obtained skill to develop innovative strategies on food preservation and processing
14UBCS61	Bioinformatics	Global	To improve skills to explore computational biology and its application
17UBCC11	Biomolecules	Regional	Knowledge about carbohydrate, protein, lipid, vitamins and nucleic acid
17UBCS12	Nutrition	National	Understanding diet for different stages of development
17UBCN11	Health and Human Nutrition	Global	Knowledge about basic importance of health, human diseases and its causes
17UBCC21	Biochemical Techniques	Regional	Biomolecules are separated by various biochemical techniques
17UBCS21	Medical Lab Technology	National	Understanding basics of biochemical diagnosis

17UBCN21	Herbal Medicine	Regional	Development of traditional herbal system and herbal marketing
17UBCC31	Enzyme and Enzyme Technology	Regional	To improve skill about enzyme reaction and enzyme applications
17UBCC41	Metabolism	Global	Fundamental energetic of biochemical process
17UBCC51	Molecular Biology	Global	To develop skills to molecular process at cell level
17UBCE51	Microbiology and Immunology	Global	Knowledge about microbes and mechanism of immune system, immune diagnosis and vaccination
17UBCE52	Pharmacology	National	Knowledge about pharmacological indication by dose response
17UBCS51	Vermi composting and mushroom culture	Regional	Knowledge about vermicomposting and mushroom culture
17UBCC61	Biotechnology	Regional	Development of different new types of production by genetic engineering process
17UBCC62	Plant Biochemistry	National	Knowledge about plant mechanism and physiology
17UBCE61	Clinical Biochemistry	National	Knowledge about clinically assessing the laboratory indicators of physiologic condition and disease
17UBCE62	Food Technology	Regional	To obtained skill to develop innovative strategies on food preservation and processing
17UBCS61	Bioinformatics	Global	To improve skills to explore computational biology and its application
B.Sc. Microbiology			
14UMBC11	General Microbiology	National	Gather knowledge about Microbes
14UMBS11	Diagnostic Microbiology	National	Diagnosis of Infectious disease

14UMBN11	Mushroom Technology	Regional	Rural Development through Mushroom Cultivation
14UMBC41	Immunology	National	Knowledge about Immune system
14UMBC52	Agriculture and Environmental Microbiology	Global	Significance of Microbes in agriculture and Ecosystem
14UMBC53	Bioinformatics	Global	Fundamental concepts of Computational Biology
14UMBC61	Recombinant DNA Technology	Global	Understanding of Genetic Engineering
17UMBS21	Dairy Technology	Regional	Significance of Milk and Milk Products
17UMBN21	Food and Dairy Microbiology	National	Exposure to Food and Dairy Products
17UMBC31	Molecular Biology and Microbial Genetics	Global	Understanding of Genes
17UMBC51	Medical Microbiology	National	Knowledge about infectious microbes and their diagnostic methods.
17UMBE61	Industrial and Food Microbiology	Global	Significance of Microbes in industries and techniques of Food Preservation
17UMBA61	Environmental Biology	Global	Fundamental concepts of Ecosystems
17UMBS61	Enzymology and Enzyme Technology	National	Understanding of role of enzymes in living organisms
B.Sc. Information Technology			
14UCTC11	Programming in C	Global	Knowledge about Advance Structured and Procedural Programming skills.

14UCTC21	Object Oriented Programming with C++	Global	Basic concept of objects which can contain data and code.
14UCTC31	Fundamentals of Data Structures	Global	Focuses on Array based Lists Linked Lists and Binary Trees.
14UCTC41	Relational Database Management Systems	Global	Knowledge about database that stores data in a structured format.
14UCTC51	JAVA Programming	Global	Fundamental concepts of object oriented event driven programming paradigms using JAVA.
14UCTC52	Operating Systems	Global	Provide fundamental concepts of all managements in an OS.
17UCTC11	Programming in C	Global	Knowledge about Advance Structured and Procedural Programming skills.
17UCTC21	Object Oriented Programming with C++	Global	Basic concept of objects which can contain data and code.
17UCTC31	JAVA Programming	Global	Fundamental concepts of object oriented event driven programming paradigms using JAVA.
17UCTC41	Relational Database Management Systems	Global	Knowledge about database that stores data in a structured format.
17UCTC42	Data Structures and Algorithms	Global	Focuses on Array based Lists, Linked Lists and Binary Trees.
17UCTC52	Operating Systems and System Software	Global	Manages Computer Hardware, Software resources and provides common services for computer programs.

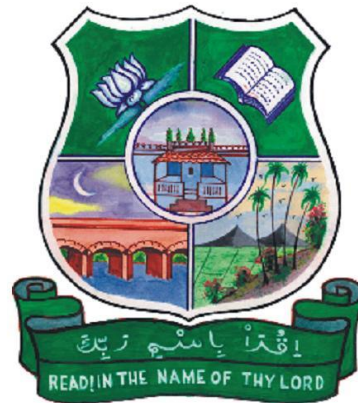



Principal
PRINCIPAL
Hajee Karutha Rowther Howdia College
(Autonomous)
UTHAMAPALAYAM-625533.

HAJEE KARUTHA ROWTHER HOWDIA COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University, Madurai.)

UTHAMAPALAYAM - 625 533



Relevance of Curriculum (PG) to the Local, National, Regional, Global developmental needs




 Principal
PRINCIPAL
 Hajee Karutha Rowther Howdia College
 (Autonomous)
 UTHAMAPALAYAM-625533.

Course code	Course title	Relevance	Description
M.Sc. Chemistry			
14PCHC11	Introduction to organic reactions	Global	Basic of organic reactions and develop the organic synthetic aspects.
14PCHC12	Structure and bonding	Global	Evaluate the geometry and properties of different inorganic compounds.
14PCHC13	Thermodynamics, chemical equilibrium and electrochemistry	Global	Basic idea about the concepts of thermodynamics, chemical equilibrium and electrochemistry.
14PCHE11	Medicinal and pharmaceutical chemistry	Regional	Learn about the synthesis of new drugs and their interactions with various receptors.
14PCHC21	Stereochemistry and organic reactions	Global	Fundamental concepts of stereochemistry and underlying mechanism of various organic reactions.
14PCHC22	Coordination and organometallic chemistry	Global	Knowledge about the structure and reactions of coordination and organometallic compounds.
14PCHC23	Group theory and spectroscopy	Global	Acquire adequate knowledge on the fundamentals of group theory concepts and spectroscopy.
14PCHE21	Analytical chemistry	National	Develop skills to utilize analytical techniques in chemical analysis

14PCHC31	Organic Spectroscopy and Natural products	Global	Knowledge about the principles and applications of various spectroscopic techniques in organic chemistry, structural elucidations of natural products.
14PCHC32	Inorganic Spectroscopy and Nano chemistry	Global	Exposure to the applications of inorganic spectroscopic techniques and Nano chemistry.
14PCHC33	Quantum, Nano and Macromolecular Chemistry	Global	Knowledge about the formulation of quantum mechanics and macromolecular chemistry.
14PCHE31	Applications of Chemistry	Regional	Understand the strategies for purification of organic compounds and knowledge about vitamins, alkaloids, antibiotics and water chemistry.
14PCHC41	Biomolecules, Rearrangements and Synthetic methods	Global	Understand the mechanism of some selective chemical reactions and awareness about the importance of biomolecules.
14PCHC42	Nuclear and Analytical Chemistry	National	Develop skills to utilize electrochemical analytical techniques and knowledge about nuclear chemistry.
14PCHC43	Chemical Kinetics, Surface, Biophysical and Photochemistry	Global	Learn about the fundamentals of chemical kinetics, surface, biophysical and photochemistry.
14PCHE41	Polymer Chemistry	National	Exposure to the structure, synthesis, properties and applications of various polymers.
17PCHC11	Introduction to organic reactions	Global	Basic of organic reactions and develop the organic synthetic aspects.
17PCHC12	Structure and bonding	Global	Evaluate the geometry and properties of different inorganic compounds.
17PCHC13	Thermodynamics, chemical equilibrium and electrochemistry	Global	Basic idea about the concepts of thermodynamics, chemical equilibrium and electrochemistry
17PCHE11	Medicinal and pharmaceutical chemistry	Regional	Learn about the synthesis of new drugs and their interactions with various receptors.
17PCHE12	Agricultural Chemistry	Regional	Knowledge about water analysis, soil analysis, Irrigation, Fertilizers, Pesticides and Insecticides, Fungicide and Herbicides.
17PCHC21	Stereochemistry and organic reactions	Global	Fundamental concepts of stereochemistry and underlying mechanism of various organic reactions
17PCHC22	Coordination and organometallic chemistry	Global	Knowledge about the structure and reactions of coordination and organometallic compounds.
17PCHC23	Group theory and spectroscopy	Global	Acquire adequate knowledge on the fundamentals of group theory concepts and spectroscopy.

17PCHE21	Analytical chemistry	National	Develop skills to utilize analytical techniques in chemical analysis
17PCHE21	Industrial Chemistry	National	Knowledge about glass and ceramics, cement, dyes and paints, plastics, oils, and fats.
17PCHC31	Organic Spectroscopy and Natural products	Global	Knowledge about the principles and applications of various spectroscopic techniques in organic chemistry, structural elucidations of natural products.
17PCHC32	Inorganic Spectroscopy and Nano chemistry	Global	Exposure to the applications of inorganic spectroscopic techniques and Nano chemistry.
17PCHE31	Quantum, Nano and Macromolecular Chemistry	Global	Knowledge about the formulation of quantum mechanics and macromolecular chemistry.
17PCHE32	Environmental Science	Global	Exposure to the types of pollution, pollutants and measurement of pollutants.
17PCHN31	Applications of Chemistry	Regional	Understand the strategies for purification of organic compounds and knowledge about vitamins, alkaloids, antibiotics and water chemistry.
17PCHC41	Biomolecules, Rearrangements and Synthetic methods	Global	Understand the mechanism of some selective chemical reactions and awareness about the importance of biomolecules.
17PCHC42	Nuclear and Analytical Chemistry	National	Develop skills to utilize electrochemical analytical techniques and knowledge about nuclear chemistry.
17PCHC43	Chemical Kinetics, Surface, Biophysical and Photochemistry	Global	Learn about the fundamentals of chemical kinetics, surface, biophysical and photochemistry.
17PCHE41	Polymer Chemistry	National	Exposure to the structure, synthesis, properties and applications of various polymers.
17PCHE42	Conducting Polymers	National	Understand basic concepts and synthetic methods, electrochemical synthesis, semiconducting and metallic polymers, doping and catalytic conducting polymers.
M.Phil. Chemistry			
17MCHC11	Research Methodology	Global	Exposure to the primary and secondary sources in literature survey, the concept of documentations in thesis writing, e C language and its applications in chemistry.

17MCHE11	Advances in Chemistry	Global	Develop the skills for interpretation of chemical compounds structure using spectroscopy.
17MCHE12	Advanced Inorganic chemistry	Global	Learn the identification and structural elucidation of pigments, the photo physical process of different transition metal complexes.
M.Sc. Physics			
17PPHC11	Mathematical Physics – I	Global	Develop expertise in mathematical techniques required in physics
17PPHC12	Classical Mechanics	Global	Apply the fundamental concepts of classical mechanics to the particle systems and Rigid bodies.
17PPHC13	Applied Electronics	National	Analyse and study the performance of various electronic devices
17PPHC1P	Practical-I	National	Develop practical skills and verify the various basic concepts of Physics in mechanical, optical experiments and electronics
17PPHC21	Mathematical Physics-II	National	Develop expertise in solving the complex problems in physics
17PPHC22	Electromagnetic Theory	Global	Deal with the fundamental principles of electrostatics, magneto statics and electrodynamics.
17PPHC23	Statistical Mechanics and Thermodynamics	Regional	Knowledge about heat, work, and temperature, and their relation to energy, radiation,
17PPHC2P	Practical-III	Global	Develop practical skills and verify the various basic concepts of Physics in mechanical, optical experiments and electronics
17PPHC31	Solid state Physics-I	Regional	Deals with the macroscopic and microscopic physical properties of matter
17PPHC32	Quantum Mechanics-I	Regional	Imparts knowledge about wave functions and Schrodinger equation, Heisenberg uncertainty principle.
17PPHC33	Applied Optics and Laser Physics	Global	Studies the behaviour and properties of light, including its interaction+D31s with matter and the construction of instruments
17PPHP31	Practical-III	Regional	Develop practical skills and verify the various basic concepts of Physics in mechanical, optical experiments and electronics
17PPHC41	Solid State Physics-II	Global	Understanding certain properties and phenomena of solid states.
17PPHC42	Quantum Mechanics-II	Global	Knowledge about the approximation methods of quantum mechanics.
17PPHC43	Nuclear and Particle Physics	Regional	Awareness of atomic nuclei and their constituents and interactions

17PPHP41	Practical-IV	Regional	Develop practical skills and verify the various basic concepts of Physics in mechanical, optical experiments and electronics
18PPHC11	Classical Dynamics	Regional	Emphasize the mathematical formulation of mechanics problems and to physically interpret the solution.
18PPHC12	Electronics, Designs and Instrumentation	Global	Analyse and study the performance of various semiconductor devices
18PPHC13	Nuclear, Particle and Astrophysics	Global	Develop new techniques of observation for a better understanding of the solar system
18PPHC32	Condensed Matter Physics -I	Regional	Knowledge on the crystal structure of materials
18PPHC42	Condensed Matter Physics -II	Regional	Understand the basic knowledge and current problems within the field of condensed matter mainly on functional materials
18PPHC4D	Project	Global	Develop practical skills and verify the various basic concepts of Physics in mechanical, optical experiments and electronics
M.Sc. Mathematics			
14PMAC13	Ordinary Differential Equations	Global	Provides Mathematical methods to solve higher order differential equations
14PMAC14	Graph Theory	Global	Deals with Graph theoretical concepts that help to model real life situations
14PMAC23	Differential Geometry	Global	Emphasize the concrete aspects of geometry centred on the notion of curvature
14PMAN31	Mathematics for Competitive Examinations	National	Provides mathematical aptitude techniques in solving profit and loss, simple and compound interest problems which helps to succeed in competitive exams.
14PMAC44	Operation Research	Global	Develops knowledge in the application of analytical methods and Queuing models to solve decision making problems
17PMAC24	Numerical Analysis	Global	Understand the numerical Algorithm And skills to implement the concept to solve mathematical problem.
17PMAE11	Mechanics	National	Demonstrate knowledge and understanding of the dynamics of system of particles

17PMAC33	Topology	Global	The Study of Geometrical Properties and Spatial relation unaffected by the continuous change of shape and size of figures .
17PMAE31	Statistics	Global	Provides various distributions of discrete and continuous types and Estimation of parameters and testing of hypotheses
17PMAC42	Number Theory	Global	Knowledge in the theory of integers from the list of axioms and explore some research problems in number theory
M.Sc. Zoology			
17EZYC11	Biology of Invertebrates, Chordates & Palaeontology	Global	Knowledge about the comparative study between the animal groups and fossil records.
17EZYC12	Genetics	Global	Understanding of concepts in genetics
17EZYC13	Cell & Molecular Biology	Global	Fundamental concepts of cell anatomy and physiology.
17EZYC14	Biotechnology	National	Knowledge about Principles mechanism and applications of bio techniques
17EZYC21	Microbiology & Immunology	National	Knowledge about microbes and underlying mechanism of immune system, immune diagnosis and vaccination
17EZYC22	Animal Physiology	Global	Knowledge about structural organization in animals
17EZYC23	Ecology & Biodiversity	Global	Fundamental concepts of ecosystem and its functions
17EZYC24	Nanotechnology	National	Knowledge about heavy metals and Nano formulations.
17EZYC31	Developmental Biology & Evolution	National	To attain comparative knowledge between the developmental and evolutionary history of animals
17EZYC32	Biochemistry & Biophysics	Global	Chemical process and transformations in living organisms and tools involve in the study of human physiology.
17EZYN33	Medical Lab Techniques	National	To acquire adequate skills for clinical and pre-clinical diagnosis in some reliable aspects.
17EZYC34	Biostatistics & Bioinformatics	National	To Improve skills in research methods and explore computational biology and its application
17EZYC41	General & Applied Entomology	Regional	Knowledge about the beneficial and harmful organisms in class insecta
17EZYC42	Aquaculture & Farm Management	Regional	Application practices in aqua farming for rural development
17EZYC43	Clinical Lab Techniques	National	Knowledge about clinical lab methods

M.Sc. Computer Science

14PCTC12	Digital Principles and Computer Organization	Global	Knowledge on Digital Circuits ,interfacing of various components.
14PCTC22	Operating Systems	Global	Provide fundamental concepts of all managements in an OS.
14PCTC23	Computer Graphics and Multimedia	Global	Involves 2D and 3D object generations and an idea of Multimedia authoring and presentations.
14PCTC31	Software Engineering	Global	Knowledge about role of Project management.
14PCTC32	Data Communications and Networks	Global	Various aspects of Data Communications and computer networking systems.
14PCTC3Q	Open Source Technology using PHP Lab	Global	Knowledge on Developing websites using PHP.
17PCSC12	Computer Organization	Global	Knowledge about Computing Hardware and how it interfaces to software.
17PCSC23	Data Communications and Networks	Global	Various aspects of Data Communications and computer networking systems.
17PCSC21	Advanced JAVA Programming	Global	Knowledge about JAVA primitive types and object classes.
17PCSC31	Mobile Computing.	Global	Involves Mobile communication, Mobile hardware and Mobile software.
17PCSC32	Compiler Design	Global	Includes various techniques for implementing compilers.
17PCSC3Q	Android Programming Lab	Global	Develop apps for mobile devices on the Android operating system.
M.Com.			
14PCRC12	Management Concepts	National	To acquire the basic knowledge in managerial functions
14PCRC13	Advanced Financial Accounting	National	To build confidence in preparing accounts of trading and non-trading concerns
14PCRC21	Financial Markets and Services	National	Knowledge about financial system and capital markets
14PCRC24	Investment Management	National	Understanding the basic concepts of securities market analysis and portfolio management.

14PCRC31	Customer Relationship Management	National	Find out what customers need and the strategies to be adopted for building customer relations stronger and to serve the customers thought information enabled relationship marketing
14PCRE31	Direct Taxes	National	Providing knowledge about direct taxes and their implications in practical situation
14PCRC32	Research Methodology	Global	To acquire knowledge about the research design for preparing the research report
14PCRE41	Entrepreneurship Development	Global	Aware of different opportunities to start an enterprise and design business plans to become an entrepreneur
17PCRC11	Business Environment	Global	To acquire the knowledge on Economic system and polices to be followed in the Business
17PCRC12	Human resource Management	National	To understand ART of managing development in the field of human resource concerns.
17PCRC14	Advanced Cost Accounting	National	To familiarise with the cost control and cost reduction in the cost of product manufactural and service provided.
17PCRC21	Financial Markets and Institution	National	Understanding the financial system and financial aid available
17PCRC23	Retail management	Global	To know the impact of retail selling and its contribution to national economy.
17PCRE11	Research methodology	Global	To develop knowledge in the preparation of the key elements of a research proposal /report
17PCRC33	Advanced corporate accounting	National	Familiarise with the corporate accounting procedures to be followed in the public and private sector organisation
17PCRE41	Entrepreneurship development	Global	To develop the entrepreneurial traits to start an enterprise and also elevate to social entrepreneurs.
M.Com. CA			
14PCAC11	Advanced Financial Accounting	Global	Knowledge about the Advanced Financial Accounting.
14PCAC12	Advanced Business Statistics	Global	Acquire adequate skills and applying various statistical tools.
14PCAC13	Web Programming	Global	Understand the web page creations and its various features.
14PCAC1P	Web Programming-Lab	Global	Acquire adequate skills in web application and html programming
14PCAC21	Resource Management Technique	Global	Understand the human resource management.

14PCAC22	Service Marketing	Global	Develop skills to utilize the Service Marketing
14PCAC23	Programming in C++	Global	Fundamental concepts of object-oriented programming.
14PCAC2P	Programming in C++ - Lab	Global	Develop skill to utilize the C++ programming concepts.
14PCAC31	Direct Taxes	Global	Exposure to understand the basic principles of Direct Taxes.
14PCAC32	Scripting Language	Global	Acquire adequate skills in scripting language.
14PCAC3P	Scripting Language – Lab	Global	Develop skills to utilize the scripts concepts
14PCAC33	Practical Banking	Global	Gain the practical knowledge in banking sector.
14PCAN31	Human Resource Management	Global	Understand the concepts of Human Resource Management and human values.
14PCAC43	Software Engineering	Global	Theoretical principles of software developments.
14PCAC44	Advanced Cost and Management Accounting	Global	Acquire adequate skills in Advanced Cost and Management Accounting.
17PCAC11	Business Management	Global	Develop the basic principles of Business Management.
17PCAC12	Advanced Financial Accounting	Global	Knowledge about the Advanced Financial Accounting.
17PCAC13	Computer Applications in Business	Global	Gain the knowledge in computer h/w, s/w and MS office Package.
17PCAC1P	Computer Applications in Business –Lab	Global	Gain the knowledge in MS office package practical skills.
17PCAE11	Applied Operation Research	Global	Understand the principles of Operation Research and its usages.
17PCAC21	Business Environment and Policies	Global	Upgrade their knowledge on industrial policy resolution and concepts.
17PCAC22	Financial Management	Global	Develop the basic principles of Financial Management
17PCAE21	Advanced business statistics	Global	Acquire adequate skills and applying various statistical tools.
17PCAC31	Advanced corporate accounting	Global	Acquire the knowledge about the company accounts.
17PCAC32	Programming in C++	Global	Fundamental concepts of object-oriented programming.
17PCAC3P	Programming in C++ - Lab	Global	Develop skill to utilize the C++ programing concepts.
17PCAE31	Direct Taxes	Global	Exposure to understand the basic principles of Direct Taxes.
17PCAE32	Research Methodology	Global	Exposure to understand the basic principles of Research Methodology

17PCAC42	Customer Relationship Management	Global	Develop the knowledge in Customer Relationship Management.
17PCAC43	E-Business Application	Global	Acquire knowledge in electronic business and its applications.
M.A English			
14PENC11	Modern literature-I	Global	Imbibe the importance of classical element in English Literature
14PENE11	Translation Studies	Regional	Understand the regional languages into English
14PENC22	Shakespeare	Global	Gain a wide idea on Shakespeare
14PENC32	Indian Writing in English	Regional	Familiarize the excellent artists in the Indian context
14PENC42	English Language Teaching	National	Enhance the basic skills to improve the quality of communication
14PENE41	English Literature for Career Development	Global	Enrich the quality upon the professional skills in English Literature
17PENC23	Comparative Literature	Global	Attain broad knowledge of various literary traditions both in their specificity and interrelation
17PENE22	Phonetics in English	Global	Provide a systematic, conscious consideration of how speech sounds are made
17PENC41	New Literatures	Global	Employ the skills of new literary traditions to produce an imaginative writing
17PENC43	Journalism and Mass Communication	National	Create an awareness of the laws involving journalism and other mass media
17PENE41	Women's Writings	Global	Demonstrate the psychological concepts of feminine genders
17PENN31	English Literature for Career Development	Global	Gain a wide knowledge upon the competitive examinations
M.A Economics			
14PECE11	Economics of Insurance	Regional	Knowledge about Insurance policy and agencies.
14PECC24	Agricultural Economics	National	To acquire knowledge about farming practices
14PECE21	International Economics	Global	Understanding basic principles of export and import
14PECC32	Industrial Economics	Regional	Theoretical knowledge about structure of industries

14PECC41	Economics of Human Resource Development	Global	To understand the need and role of human capital
14PECC42	Economics of Foreign Exchange	Global	To understand Foreign Exchange Market and International Clearing methods
14PECC43	Indian Economy	National	Acquainted with the ideological bases of the Indian economy
17PECC24	Agricultural Economics	Global	To acquire knowledge about farming practices
17PECE21	International Economics	Global	Understanding basic principles of export and import
17PECC32	Industrial Economics	Regional	Theoretical knowledge about structure of industries
17PECC41	Economics of Human Resource Development	Global	To understand the need and role of human capital
17PECC42	Economics of Foreign Exchange	Global	To understand Foreign Exchange Market and International Clearing methods
17PECC43	Indian Economy	National	Acquainted with the ideological bases of the Indian economy
M.A. History			
14PHIC11	State And Society In Tamil Nadu Up To Ad.1565	Regional	Brings out the glory of Sangam Age and the rule of important dynasties in Ancient Tamil region.
14PHIC12	Socio – Economic History Of India Up To A.D.1206	National	Provides sufficient knowledge about Pre – historic and Ancient India.
14PHIC13	Freedom Struggle In India, 1800-1905 A.D.	National	Enumerates the Contributions of National leaders and movements that prepared the people of India to over throw the British rule
14PHIC14	History Of Science And Technology	Global	Describes the Scientific and Technological developments from Pre – historic period to present period in the World.
14PHIE11	History Of Europe, 1789-1914 A.D.	Global	Analyses the European politics from French Revolution to First World War.
14PHIC23	Freedom Struggle In India, A.D. 1800 – 1947	National	Describes the struggle of the people of India against the British rule.
14PHIC24	History of The U.S.A. 1865-1945A.D	Global	Analyses the Historical evolution of America as a Super Power.
14PHIE21	Public Administration	National	Explains the nature, meaning and execution of Public Administration.

14PHIC31	History Of The Arabs, A.D. 570 - 750	Global	Analyse the life of the Arabs and its impact on the life of the Muslims of the World.
14PHIC32	International Relations, 1914 – 1945 A.D.	Global	Provides and elaborate understanding of International Relations.
14PHIC33	Constitutional History Of India From .1773 To 1892AD	National	Describes the evolution of Constitutional developments in India.
14PHIC34	Theory Of History And Methods Of Research	National	Analyses the significance of the Historical writing of eminent Indian Historians.
14PHIN31	Freedom Struggle In India, A.D.1800-1947.	National	Analyses the role of Indian Leaders in National Movement.
14PHIC44	History Of World Civilizations Up To 1453 A.D.	Global	Narrates the different civilizations of the World and their historical significance.
17PHIC11	State And Society In Tamil Nadu Up To Ad.1565	Regional	Brings out the role of important dynastic in ancient Tamil region
17PHIC12	Socio – Economic History Of India Up To A.D.1206	National	Provides sufficient knowledge about Pre – historic and Ancient India.
17PHIC13	Freedom Struggle In India, 1800-1905 A.D.	National	Enumerates the Contributions of National leaders and movements that prepared the people of India to over throw the British rule
17PHIC14	History Of Science And Technology	Global	Makes to understand the scientific and Technological developments from Pre – historic period to present period in the World.
17PHIE11	History Of Europe, 1789-1914 A.D.	Global	Analyses the European politics from French Revolution to First World War.
17PHIE12	Archaeology	Global	Describes the significance of ARCHAEOLOGY in World History
17PHIC21	State And Society In Tamil Nadu ,1565-2000AD	Regional	Explains the contributions of Congress Dravidian parties for the development of the Tamil Nadu
17PHIC22	Socio – Economic History Of India ,1206-1857 AD	National	Describes the socio Economic Life of the People of Medieval India
17PHIC24	History Of The U.S.A. 1865-1945A.D	Global	Analyses the Historical evolution of America as a Super Power.
17PHIE21	Public Administration	National	Describes the Nature and meaning of public Administration In Indian context.

17PHIE22	History of Russia up to 1991AD	Global	Describes the raise the of Russian Empire and it's impact in the World politics.
17PHIC31	History Of The Arabs, A.D. 570 - 750	Global	Analyses the Historical Events Islam in Chronological Order
17PHIC32	International Relations, 1914-2005 AD	Global	Gives and Elaborate understanding of International Relations
17PHIC33	Theory Of History And Methods Of Research	National	Makes the scholars to undertake research projects to Write the history of Contemporary India
17PHIE31	Constitutional History Of India From .1773 To 1950 AD	National	Brings out the evolution of Constitutional developments in India.
17PHIE32	Women's Studies in India	National	Terraces out the condition in women in India through the ages
17PHIN31	History of freedom Struggle in India ,1800-1947 AD	National	Analyses the role of National Leaders in freedom Movement
17PHIC41	History Of The Arabs, 750-1258 AD	Global	Enable to understand the principles of Islam the sects of Islam and Schools of thoughts in Islamic Law
17PHIC42	National Heritage of India	National	Explains the Cultural Heritage in India throughout the ages
17PHIC43	Contemporary India 1947-2000 AD	National	Explains the Socio economic Developments in Post independent India
17PHIE41	History World Civilization up to 1453 AD	Global	Narrates the different civilizations of the World and their historical significance.



A handwritten signature in green ink, appearing to be the initials "HR" followed by a flourish.

Principal

PRINCIPAL

Hajee Karutha Rowther Howdia College
(Autonomous)
UTHAMAPALAYAM-625533.