# A.D.M College For Women
## (Autonomous)
### Nationally Accredited with 'A' by NAAC (Cycle- III)
### Nagapattinam - 611 001
### Tamil Nadu.

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

### NAME OF THE PROGRAMME : UG PROGRAMME

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| GS | Gender Studies | **Gender** | Teaches about Feminism and highlights the manner in which women are treated in various parts of the society. There are many Acts that the government has introduced in order to empower women are elaborated upon. |
| VE | Value Education | **Human Values And Professional Ethics** | The aim is to inculcate the Students to understand moral values and show their good behaviour, attitude and approach towards Society. |
| ES | Environmental Education | **Environment And Sustainability** | The study of Environmental Studies gain the intellectual methodological tools understand the environmental issues of our Society |

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| SSD | Soft Skill Development | **Human Values** | Helps the student understand the need for the development of self-esteem, team spirit and communicative skills to prepare themselves for self-development. |

## NAME OF THE PROGRAMME : B.A.HISTORY

## PROGRAMME CODE : UAH

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| HUA3 | Public Administration | **Human Values** | Gain Knowledge and skills to Learn Public Administration and acquire Knowledge on Public officials. |
| HUE3 | Human Rights | **Human Values** | Analyze the role of great champions of Human Rights and gain knowledge on Human Rights Problems and resolutions. Acquire Knowledge on Protections of Human Rights in India. |
| HUE2 | Introduction to Indian Constitution | **Human Values** | Acquire knowledge about the functions of Government and Aware of the functions of State Government |

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| HUO | Women Through The Ages In India. | **Gender And Human Values** | Gain knowledge about the Position of Women through the ages. Recognize the women's role in Indian Independence Movement. |
| HUS3 | Archives Keeping | **Professional Ethics** | It describes the art of maintaining government records and record management |

## NAME OF THE PROGRAMME : B.A.ECONOMICS

## PROGRAMME CODE : UAE

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| EUB | Indian Economic Development | **Environment And Sustainability** | Enable to students to understand various issues in Indian Economy |
| EUC | Skill based course - Marketing | **Environment And Sustainability** | To teach the policies and strategies of marketing |
| EUE4 | Women Entrepreneurship | **Gender** | To teach the students with the concept of women Entrepreneur |

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| EUE | Agricultural Economics | **Gender** | To understand the  importance of crop insurance |
| EUF | Labour Economics | **Human Values** | Labour welfare measures were taught in this course. |
| SSD | Soft skill | **Professional Ethics** | Highlights the team building positive attitudes |
| EUE5 | Human Resource Development | **Gender And Human Values** | To identify the Human Capital Formation |
| EUE4 | Entrepreneurship Development | **Human Values And Professional  Ethics** | To create knowledge among the  students to start a small business |
| EUG | Industrial Economics | **Human Values  And Professional  Ethics** | Understand the sources of industrial finance |

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| PGEE1 | Indian Economic Problems | **Environment And Sustainability** | Tech the students it includes Achievements and shortcoming of paining in Indian |
| PGEE | Environmental Economics | **Environment And Sustainability** | It includes Environmental policy & Sustainable Development |
| PGEM | Agricultural Economics | **Environment And Sustainability** | Various Promotional strategies were discussed |
| PGEE5 | Health Economics | **Environment And Sustainability** | Enable the students to understand various health care programmes |
| PGEJ | Industrial Economics | **Human Values And Professional Ethics** | Wages, labour legislation, Labour problems were discussed |
| PGEI | Gender Economics | **Gender And Human Values** | Women and empowerment is discussed in this course |

**NAME OF THE PROGRAMME : B.Com**

**PROGRAMME CODE : UCO**

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| CUC | Marketing | **Environment And Sustainability** | Teaches students how the marketing of product is to be done. |
| CUF | Business Laws | **Human Values And Professional Ethics** | Teaches students the different ways in which the business can be run legally. |
| CUH | Banking Theory Law and Practice | **Human Values And Professional Ethics** | Helps the students to understand the day-to-day banking activities. |
| CUK | Auditing | **Human Values And Professional Ethics** | Develops the skill of maintaining records in an organization. |
| CUO | Entrepreneurship Development | **Human Values And Professional Ethics** | Entrepreneurial Development Programmes, Nodal agencies, etc. are some of the topics taught in this course. |
| CUA1 | Business Environment | **Human Values And Professional Ethics** | Basic aspects of business environment, Social Responsibility of Business and Business Ethics are the topics taught in course. |

| CUA2 | Business Economics | **Human Values And Professional Ethics** | Applications of economic theories in business, various market structures are discussed. |
|------|--------------------|------------------------------------------|----------------------------------------------------------------------------------------|
| CUA3 | Business Communication | **Human Values and Professional Ethics** | Helps to develop their personal business communication skills. |
| CUA4 | Company Law and Secretarial Practice | **Human Values And Professional Ethics** | Teaches the different provisions of Companies act. |
| CUE3 | Financial Services | **Human Values And Professional Ethics** | Financial services, Mutual Funds, Venture Capital are taught in this course. |
| CUE4 | Human Resource Management | **Human Values And Professional Ethics** | Teaches human values and ethical ways of running a business. |
| CUE5 | Investment Management | **Professional Ethics** | Teaches how to invest in securities ethically. |
| CUS1 | Indirect Tax Laws | **Professional Ethics** | Deals with the provisions and procedures in Goods and Services Act. |
| CUS2 | Salesmanship | **Human Values And Professional Ethics** | Deals with ethical procedures for a salesman. |
| CUS3 | E-Commerce | **Human Values And Professional Ethics** | Technology, Operations, Security and Legal aspects of e-Commerce are taught in this course. |

**NAME OF THE PROGRAMME : M.Com**

**PROGRAMME CODE : PCO**

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| PGCA | Core - Managerial Economics | **Human Values And Professional Ethics** | Teaches application of economic theories in managerial decisions. |
| PGCB | Core - Business Environment and Management | **Environment And Sustainability** | Ethical conduct of business is enumerated. |
| PGCC | Core – Marketing Management | **Environment & Sustainability** | Teaches the method to market a product and consumer behavior. |
| PGCD | Core – Corporate Laws | **Human Values And Professional Ethics** | Deals with various acts for conducting business legally. |
| PGCF | Core – Strategic Management | **Human Values And Professional Ethics** | Helps to plan the strategies of a business ethically. |
| PGCL | Core – International Business | **Human Values And Professional Ethics** | Teaches how to enter into international business legally and ethically. |

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| PGCN | Core – Human Resource Management | **Human Values And Professional Ethics** | Deals with human values and ethical business conduct. |
| PGCE1 | Elective – Organisational Behaviour | **Human Values And Professional Ethics** | Leadership styles, Organizational Change and Development are explained. |
| PGCE2 | Elective – Customer Relationship Management | **Human Values And Professional Ethics** | Teaches human values and ethical way of dealing with consumers. |
| PGCE3 | Elective – Banking and Financial Institutions | **Human Values And Professional Ethics** | Teaches recent trends in banking services and financial institutions. |
| PGCE4 | Elective – Teaching and Learning Skills | **Human Values And Professional Ethics** | Deals with teaching skills and recent developments. |
| PGCE5 | Elective – Security Analysis and Portfolio Management | **Human Values And Professional Ethics** | Teaches how to invest in securities legally. |

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| MUE | Differential Equations & Laplace Transforms | **Environment & Sustainability** | It contains more applications in Physics and to find the solution for scientific and real life problems. |
| MUE5 | Graph theory | **Environment And Sustainability** | Operations of Traffic lights, clearance of road blockage can be studied. Also help scientists identify correlations to get the point of the experiment across quickly. |
| MUE2 | Mathematics for Competitive Examinations | **Human Values And Professional Ethics** | Shortcut methods in solving Arithmetic reasoning Problems, Puzzles, Time series, Venn Diagram and Logical ability problems are taught. |
| MUE3 | Operations Research | **Professional Ethics** | Solving Integer Programming Problems , NLPP programming algorithms and Inventory models are taught |
| MUE4 | Stochastic Processes | **Professional Ethics** | Representing numerical values of some system randomly changing over time, such as the growth of a bacterial population, an electrical current fluctuating due to thermal noise, or the movement of a gas molecule. |

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| PGME2 | Major Elective- Fuzzy Sets and its Applications | **Human Values And Professional Ethics** <br><br> **Environment & Sustainability** | Facial pattern recognition, working nature of air conditioners, washing machines and vacuum cleaners, control of sub way systems and un manner helicopters, weather for ecasting systems, medical diagnosis and treatment plans, and stock trading can Be studied |
| PGMG | Major Core– Partial Differential Equations | **Environment And Sustainability** | An in-depth knowledge of solving partial Differential Equations and methods to solve scientific and Engineering Problems are taught. |
| PGME4 | Major Elective – Advanced Operations Research | **Environment And Sustainability** | To formulate the given simplified description of a suitable real work problem as a linear programming model is taught. |

| PGMN | Major Core - Fluid Dynamics | **Environment And Sustainability** | Important technological applications of fluid dynamics include rocket engines, wind turbines, oil pipelines and air conditioning systems. |
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| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| QUE | Qualitative Analysis | **Human values And Professional Ethics** | To learn the chemical composition of a sample. |
| QUS1 | Pharmaceutical chemistry | **Environment And Sustainability** | Role of drugs |
| QUE3 | Analytical chemistry | **Human values And Professional Ethics** | To learn the instrumentation studies the detail of analytical techniques |
| QUS2 | Applied chemistry | **Human values And Professional Ethics** | Learn about types and hardness of water and develop skills in the preparation of dairy products. |
| QUS3 | Polymer chemistry | **Human values And Professional Ethics** | To learn the textile processing, manufacture of polyester, paint chemistry. |

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| PGQE3 | Green chemistry | **Environment & Sustainability** **Human values And Professional Ethics** | Ethics and social responsibility for greener synthesis. |
| PGQE2 | Industrial chemistry | **Environment And Sustainability** **Human values And Professional Ethics** | To learn the industrial applications especially to process in manufacturing commercial production of chemicals. |
| PGQE4 | Applied chemistry | **Human values And Professional Ethics** | Learn about types and hardness of water and develop skills in the preparation of dairy products. |
| PGQE5 | Recent trends in chemistry | **Human values And Professional Ethics** | The course will introduce modern trends in physical chemistry, material chemistry. |

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| PGQE1 | Non-conventional energy sources | **Environment & Sustainability** **Human values And Professional Ethics** | Students are taught how to use renewable sources. |
| PGQA | Organic chemistry | **Environment & Sustainability** **Human values And Professional Ethics** | To give a overview of the basic trends in organic chemistry. interpret collection of data in terms of common theory involved. |
| PGQB | Inorganic chemistry | **Environment & Sustainability** **Human values And Professional Ethics** | The students will be able to understand chemical bonds, bonding theories& basic molecular structure. |

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| QUC | Biology of Invertebrates | **Human values And Professional Ethics** | Student Interpret the affinities, evolutionary relationships and adaptation of the major taxa and to explain their economic importance with respect to Non Chordates |
| QUB | Biology of Chordates | **Human values And Professional Ethics** | Understand the diversity of vertebrates and its outline systematic |
| ZUS2 | Apiculture | **Environment And Sustainability** | Be aware of a broad array of career options and activities in human medicine, biomedical research and allied health professions at local or global level |
| ZUE1 | Public Health and Hygiene/Food and Nutrition | **Human values And Professional Ethics** | Learn healthy habits to protect yourself from disease and prevent germs and infectious diseases from spreading |
| ZUE | Developmental Biology | **Gender** | Aware of the reproductive cycle, hormones, Birth control. |

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| ZUH | Genetics And Microbiology | **Human values And Professional Ethics** | Introduction to prenatal counseling, amniocentesis is given to the students |
| ZUK | Environmental Biology, Biodiversity conservation and Evolution | **Environment And Sustainability** | Focus on the components of environment, and different types of habitat, characteristics of population and community, different fragile ecosystems, different types of disasters and the laws for the conservation of environment |
| ZUS3 | Animal Biotechnology | **Environment And Sustainability** | The students gain an understanding of sewage treatment, superbug and oil degradation, bio -fuels, biosensors & biochips |
| ZUL | Applied Entomology | **Environment And Sustainability** | Knowledge on biological and chemical control of insect pests and Integrated Pest Management (IPM) is imparted to the students |
| SSD | Soft Skill Development | **Human values And Professional Ethics** | Helps the student understand the need for the development of self esteem, team spirit and communicative skills to prepare themselves for self development |

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| TUA | தற்கால இலக்கியம் (கவிதையும், உரைநடையும் | Gender and Environment And Sustainability | கவிதைஎழுதும்படைப்புத்திறனைப்பெறுவர் |
| TUB | நன்னூல் எழுத்ததிகாரம் காண்டிகையுரை) | Environment And Sustainability | எழுத்துமாற்றங்களால்ஏற்படும்பொருள்மாற்றத்தைஉணர்கிறார்கள். |
| TUA1 | தமிழ்மொழிவரலாறு | Human values And Professional Ethics | தமிழகத்தின்பண்டையஅரசியல்சூழல்இலக்கியவளர்ச்சிநாகரிகம்குறித்தஅறிவர். |
| TUC | சிற்றிலக்கியங்கள் | Human values And Professional Ethics | சிற்றிலக்கியத்திற்கும்பேரிலக்கியத்திற்கும்உள்ளவேறுபாட்டினைஅறிந்துகொள்ளுவர். |
| TUD | நன்னூல், சொல்லதிகாரம் | Environment And Sustainability | சொற்பாகுபாடு, வடமொழியாக்கம், பதம்பிரித்தல்முதலியவற்றை அறிந்துகொள்ளுவர். |

| | (காண்டிகையுரை) | | |
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| TUA2 | தமிழ் இலக்கிய வரலாறு | Environment And Sustainability | தமிழ் இலக்கியங்களை பற்றி அறிந்து கொள்ளுவர் |
| TUE | சித்தர் இலக்கியம் | Environment And Sustainability , Human values And Professional Ethics | சித்தர்பாடல்களின் வழிமனித வாழ்வியல் நெறிகளின் மேன்மைகளை அறிவர். |
| TUF | இலக்கணம் யா ப்பருங்கலக்காரிகை | Environment And Sustainability | சித்தர்பாடல்களின் வழி மனிதவாழ்வியல் நெறிகளின் மேன்மைகளை அறிவர். |
| TUA3 | மகளிரியல் | Environment And Sustainability | பெண்களை பற்றிய அறிஞர்களின் விளக்கங்களையும் தொல் சமூக மகளிர் நிலைப்பற்றியும் அறிவர். |
| TUG | சமய இலக்கியம் | Environment And Sustainability | ஆன்மீகத்தின் உண்மை நிலையை உணரச்செய்வர், சமயங்கள் உணர்த்தும் பொதுமையை அறிவர் |
| TUH | தண்டியலங்காரம் | Environment And Sustainability | சிலேடை,செய்யுள்இயற்றும்ஆற்றல்பெறுவர். |
| TUJ | திருக்குறள் | Environment And Sustainability | கல்வி ஒருவருக்கு அழிவில்லாத செல்வத்தை தரும் என்ற உண்மையை உணர்ந்து கொள்வர். |

| TUK | நம்பியகப்பொருள் | Environment And Sustainability | 'வரைவு' என்பதன் இலக்கணத்தை அறிந்து கொள்வர். |
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| TUL | சங்கஇலக்கியம் | Environment And Sustainability | வாழ்வியல்அறங்கள்மற்றும்வரலாற்றுசெய்திகளைஅறிவர். |
| TUM | அறஇலக்கியம் (திருக்குறள் நீங்கலாக) | Environment And Sustainability | வாழ்க்கையை நெறிபட வாழும் இனிய நடைமுறை வாழ்வியலை உணர்வர். |
| TUN | தமிழின் செம்மொழி பண்புகள் | Environment And Sustainability | தமிழுக்கு செம்மொழி தகுதி தந்த தமிழ்ச் செவ்விலக்கியச் சிறப்புகளை அறிவர் |
| TUO | புறப்பொருள் வெண்பாமாலை | Environment And Sustainability | பழந்தமிழரின்புறவாழ்க்கைநெறிகளைப்பற்றிஅறிவர் |
| TUE5 | இலக்கியத் திறனாய்வு | Environment And Sustainability | இலக்கியம்பற்றியும்மொழியைப்பற்றியும்பயிலவிரும்பும்மாணவர்கள்திற னாய்வுபற்றிநன்குஅறிந்துகொள்கிறார்கள். |

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
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| NUD | Grammar and Usage | **Human values And Professional Ethics** | Students will use basic grammatical structures in short conversations and discussions. |
| NUS1 | Writing Skills in English | **Human values And Professional Ethics** | To make the students to learn, practice and acquire the skills necessary to deliver the presentation with clarity. |
| NUS2 | Study Skills | **Human values And Professional Ethics** | To apply preferred learning style to coursework in classroom and homework settings to maximum learning potential. |
| NUS3 | Business Communication | **Human values And Professional Ethics** | To understand and apply basic principles of critical thinking, problem solving, and technical proficiency in the development of exposition and argument |
| SSD | Soft Skills Development | **Human values And Professional Ethics** | To understand and appropriately apply modes of expression, i.e., descriptive, expositive, narrative, scientific, self-expressive, in written, visual, and oral communication. |
| NUI | Shakespeare | **Human values And Professional Ethics** | Connects the learners with humanity and instills humanitarian values in them and also sensitizes them towards environmental issues |

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| NUA2 | Literary Forms | **Human values And Professional Ethics** | Introduces the various genres of literature enabling the learners. |
| NUA1 | Social History Of England & History Of English Literature – I | **Human values And Professional Ethics** | Imparts abroad range of knowledge pertaining to History of English Literature and the Social History of England. |
| NUA2 | Social History Of England & History Of English Literature – II | **Human values And Professional Ethics** | Imparts abroad range of knowledge pertaining to History of English Literature and the Social History of England. |
| NUEF | Journalism - I | **Human values And Professional Ethics** | Gives practical and skill based training in various skills relevant to the print media like reporting, journalistic writing and editing that would enable them take up a career in Journalism. |
| NUK | American Literature | **Human values And Professional Ethics** | Presents a survey of American Literature making the learners understand and appreciate the salient features of American Literature. |
| NUFG | Journalism - II | **Human values And Professional Ethics** | Trains in interview skills, specific skills related to using video material in journalism, basics of photography and picture composing and basics of audio journalism. |

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
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| PUA | Properties of Matter and Acoustics | **Environment And Sustainability** | To Examine how bending moment various at the cut position of the beam for various loading condition. |
| PUC | Mechanics | **Environment And Sustainability** | To Understand that the center of gravity, center of pressure and the atmospheric Pressure. |
| PUD | Thermal Physics | **Human Values And Professional Ethics** | To understand the phenomena connected with heat as radiation, conduction, different thermal capacities of substances. |
| PUF | Electricity, Magnetism and Electro Magnetism | **Environment And Sustainability** | This paper deals with the study of Electric field, Magnetic field, and Electromagnetic theory. |
| PUG | Optics | **Environment And Sustainability** | The main objective of this subject is to aware the students about of waves and optics. |
| PUH | Atomic and Molecular Physics | **Environment And Sustainability** | The purpose is to understand the outgrowth of the structure, extra nuclear part of the atom and origin of the spectra. |

| PUI | Electronics | **Environment And Sustainability** | This course is familiarize the students about the transistor, operational amplifier and Digital electronics Circuit |
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| PUK | Nuclear Physics | **Environment And Sustainability** | To understand the properties of nucleus reactivity. |
| PUL | Classical & quantum Physics | **Environment And Sustainability** | To know what central, conservative and central-conservative forces mathematically understand the conservative theorems of energy, linear momentum and angular Momentum. |
| PUE1 | Energy Physics | **Environment And Sustainability** | This course intends to give a comprehensive description of existing types of conventional energy sources and aims to give a potential notion to resolve the challenges with regard to future supply and demand with the usage of various types of renewable energy sources like solar energy, geo thermal energy, wind, biomass, tidal energy. |

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| BUA | Biomolecules | **Human Values And Professional Ethics** | Deals with detail study of definition, classification, structure and cellular functions of its biomolecules carbohydrates, lipids, proteins and nucleic acids. |
| BUC | Analytical Techniques | **Human Values And Professional Ethics** | Analytical Biochemistry is essentially a conceptual subject requiring you to relate the theoretical background of the various biochemical analytical methods to the practical application of instruments used to carry out the analyses. |
| BUD | Human Physiology | **Human Values And Professional Ethics** | This course is designed to provide students with an understanding of the function & regulation of the human body and physiological integration of the organ systems to maintain homeostasis. |
| BUE | Cell and Molecular Biology | **Human Values & Professional Ethics** | Cell and Molecular Biology encompasses study of the structure and function of organisms and biological processes at the level of cells, and the macromolecules that define them (DNA, RNA, proteins, lipids, and carbohydrates). |

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| BUE1 | Women and Health | **Gender And Human Values** | This course is an introduction to the personal and social concerns of women's past and present health trends. Emphasis will be placed on the historical perspective of women's health, including an exploration of psychological, physiological, and social barriers to women's health. The holistic model of wellness will be examined. |
| BUE2 | Cosmetology | **Human Values And Professional Ethics** | The primary purpose of the Cosmetology course trains the student in basic manipulative skills, safety judgments, proper work habits and desirable attitudes necessary for entry-level position in Cosmetology or related career avenue. |
| BUS1 | Herbal Medicine | **Human Values And Professional Ethics** | There is strong demand for alternatives to pharmaceuticals for a variety of common illnesses due to concerns of safety, efficacy, and a desire for more "natural" products. |
| BUG | Introduction to Enzymology | **Human Values And Professional Ethics** | This course is an introductory and the first course in enzymology designed specifically for students in biochemistry. The course will cover a wide range of subjects such as vitamins and co- enzyme, classification of enzyme, mechanism and kinetics of enzyme catalyzed reaction. |
| BUH | Bioenergetics and metabolism | **Human Values And Professional Ethics** | The series broadly cover the study of chemical processes in living organisms. In this course, students learn about the energy producing pathways of glycolysis, Krebs cycle, oxidative phosphorylation, and fatty-acid oxidation. |
| BUI | Pharmaceutical Biochemistry | **Gender , Human Values And Professional Ethics** | Pharmaceutical biochemistry is that branch of drugs involved with the biochemistry and metabolism of human health and sickness. |
| BUE3 | Medical Lab | **Human Values And** | Medical Laboratory Technology (MLT) is a branch of science that deals with the |

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| | Techniques | **Professional Ethics** | diagnosis, treatment and prevention of diseases using clinical laboratory tests. While studying this course, candidates are taught about the diseases and the use of medical laboratory equipment in performing clinical tests. |
| BUS3 | Food And Nutrition | **Human Values And Professional Ethics** | Aims at developing basic understanding about nutrition, its effect on human health and newer advances in food technology. The knowledge of nutrition under extreme empowers students' knowledge and skills to utilize food as a powerful tool for physical, mental, and social wellbeing. |
| BUK | Clinical Biochemistry | **Environment and Sustainability** **Human Values and Professional Ethics** | It focused on scientific discipline within medicine. It includes the analysis of body fluids, cells and tissues and interpretation of the results in relation to health and disease. |
| BUL | Immunology | **Environment and Sustainability** | Immunology is the study of the immune system and is a very important branch of the medical and biological sciences. The immune system protects us from infection through various lines of defense. |
| BUE4 | Biotechnology | **Human Values and Professional Ethics** | Understanding on the Biotechnology of sewage treatment and effluent treatment for tannery, textile and paper industry, bio-monitoring, biopolymers, bio-filters, biosensors, bio-scrubbers, DNA and bioremediation of heavy metal, oil – "super bug" |
| BUE5 | Bioinformatics | **Environment and Sustainability** **Professional Ethics** | Bioinformatics and Computational Molecular Biology. This course is an introduction to the application of computational methods to biological data analysis and for discovery. The focus will be on computational methods in Genomics and Proteomics. |

## NAME OF THE PROGRAMME : BUSINESS  ADMINISTRATION

## PROGRAMME CODE :  UBA

| COURSE CODE | COURSE  TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| AUA | Principles of Management | **Environment &Sustainability** **Human Values And Professional Ethics** | This Course presents the principles, techniques, and concepts    needed for managerial analysis and decision making. It highlights the effective management of planning ,organizing, influencing, and controlling related to the internal and external environment and issues of ethics and social responsibility. |
| AUC | Organizational Behaviour | **Environment And Sustainability** | Leadership style and Motivation theories are explained. |
| AUE4 | Entrepreneurial Development | **Gender, Environment And  Sustainability** | Women Entrepreneurship, Total Quality Management etc, are some of the ideas taught in this course. |
| AUF | Business Law | **Human Values And Professional Ethics** | Teaches students the different ways in which the business can be run legally. Laws related to business operations are taught. |
| AUG | Human Resource Management | **Human Values And Professional Ethics** | Teaches Human values and ethical ways of running a business. Deals with human values and ethical business conduct. |

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|---|---|---|---|
| AUN | Enterprise Resource Planning | **Human Values And Professional Ethics** | This course focuses on the systems approach to the planning, analyzing, design , development and evaluation of the supply chain. |
| AUD | Business Communication | **Human Values And Professional Ethics** | To develop their personal business communication skills. |
| AUK | Research Methodology | **Human Values And Professional Ethics** | The course introduces the language of research, ethical principles and challenges, and the elements of the research process within quantitative , qualitative and mixed methods approaches. |
| AUJ | Operations Research | **Human Values And Professional Ethics** | Solving Linear Programming Problem, Graphical Solution Methods, Networking Problems are taught. |
| AUO | Financial Management | **Human Values And Professional Ethics** | The focus of this course is in the area of Financial Management. We will show managers how to interface with accounting and finance departments. |
| ES | Environmental Studies | **Environment And Sustainability** | Teaches students about the various issues that affect the environment. It also highlights different conservation methods to protect and sustain the Environment. |

## NAME OF THE PROGRAMME : B.Sc COMPUTER SCIENCE

## PROGRAMME CODE : UCS

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| **XUA** | C Programming | **Professional Ethics** | To provide the fundamental knowledge of a programming language and its features which enhances the user to write general purpose application programs. |
| **XUBY** | Programming in C Lab | **Professional Ethics** | To provide practical application of the concepts which were discussed in the theory. |
| XUCY | Office Automation Lab | **Professional Ethics** | To familiarize the students in preparation of documents and presentations with office automation tools. |
| XUD | Object Oriented Programming using C++ with Data Structures | **Professional Ethics** | To facilitate the students with the comparative knowledge of structured oriented programming and object oriented programming paradigm. To impart fundamental knowledge on application of data structures in problem solving and about predefined algorithms. |
| XUEY | Data Structures Using C++Lab | **Professional Ethics** | To facilitate the students practical knowledge to write application programs using object oriented programming paradigm. To effectively utilize the apt data structures to solve problems and to write efficient algorithms for solving problems |
| XUF | Database Systems | **Professional Ethics** | To understand the need for database management systems, their architecture, data |

| | | | models and a detailed explanation of database schema. This course also facilitates the students to acquire the skill of using SQL as a tool to access database entities. |
|---|---|---|---|
| XUGY | Database Systems Lab | **Professional Ethics** | To understand the practical applicability of database management system concepts. Working on existing database systems, designing of database, analysis of table design. |
| XUE1Y | Web Designing Lab | **Professional Ethics, Human Values And Gender** | To Implement a web application using web programming to enhance front end user experience. |
| VAX2Y | DTP Lab | **Professional Ethics, Human Values And Gender** | To create documents like leaflets, brochures and newsletters. Modern word processors have the basic features of DTP software but features such as templates and frames make DTP software better for complex page layouts |
| XUH | Java Programming | **Professional Ethics** | This Java Programming course provides extensive programming experience with Java and its object-oriented features. |
| XUIY | Java Programming Lab | **Professional Ethics** | Java Programming Lab course provides programming skill to develop Object Oriented Java application and interactive event driven Applets. |
| XUE2Y | Animation Lab | **Professional Ethics** | This course aims to impart skills to develop animated cartoons and movies using animation techniques. |
| XUS1Y | R-Programming Lab | **Professional Ethics** | To provide exposure in terms of Statistical Analysis, Hypothesis Testing, Regression and Correlation using R programming language. |
| XUS1Y | Software Design Tools | **Professional Ethics** | This course aims to impart skills to Analysis tools, Design tools, Construction tools, |

| | Lab | | etc., |
|---|---|---|---|
| XUJ | Web Technology | **Professional Ethics** | Analyze a web page and identify its elements and attributes. Create web pages using XHTML and Cascading Style Sheets. |
| XUK | Operating Systems | **Professional Ethics** | To understand the role of operating system as a resource manager, its architecture, types. Also this paper facilitates the students to understand vulnerabilities and the various techniques to protect them. |
| XUL | Computer Networks | **Professional Ethics** | To impart knowledge about the basics and the structure of data communicating systems and the various algorithms and protocols used to accomplish data transmission through internet. |
| XUE3 | Web Graphics | **Professional Ethics** | Web graphics are visual representations used on a Web site to enhance or enable the representation of an idea or feeling, in order to reach the Web site user. |
| XUE3 | Big Data and Analytics | **Professional Ethics** | Big Data Analytics consists of Big Data: Concepts and Terminology, Big data Adoption and Planning, Enterprise Technologies and Big Data Business Intelligence and its Storage Technology. |
| XUE3 | Mobile Communication | **Professional Ethics** Human Values | To know the evolution of Mobile communication concept to improve capacity of the system. know the types of channel coding techniques, data transmission modes and services of GSM and CDMA |
| XUS2Y | Web Technology and Bioinformatics Lab | **Professional Ethics** | To organize vast reams of molecular biology data in an efficient manner. To develop tools that aid in the analysis of such data. |
| XUS2Y | Software Testing Tools | **Professional Ethics** | To study fundamental concepts in software testing including software testing |

| | | | objectives, process, criteria, strategies, and methods. |
|---|---|---|---|
| XUS3Y | Multimedia Lab | **Professional Ethics** | To support research and education of Computer Science students in the fields of Multimedia Technology such as image editing, photo-retouching, web design, etc. |
| XUS3Y | Internet with ASP Lab | **Professional Ethics Human Values And Gender** | Server Side Programming using ASP.NET contains Introduction to .NET FrameWork3.5, Web Forms – Standard Controls. |
| XUM | Micro Computer Architecture | **Professional Ethics** | To impart knowledge about internal architecture of a computer system and the techniques used to connect various input/output system with the computer. |
| XUNY | Python and Bioinformatics Lab | **Professional Ethics** | To understand biology information and save it into the biological database. Python is used for machine learning, ai, data science, web development, desktop app design. Currently, python also rapidly grows in statistical analysis |
| XUOP | Project | **Professional Ethics** | To understand Software Development Process and to Analyze, Plan, Design and Implement a Software System |
| XUE4` | Python Programming | **Professional Ethics** | Python is an interpreted, high-level, general-purpose programming language. it provides constructs that enable clear programming on both small and large scales. |
| XUE4 | Computer Graphics | **Professional Ethics** | To provide comprehensive introduction about computer graphics system, design algorithms and two dimensional transformations. |
| XUE4 | Artificial Intelligence | **Professional Ethics** | The course aims to orient the students to develop interest towards Artificial Intelligence (AI) the latest technology. |

| XUNY | Data Visualization tool Lab | **Professional Ethics** | To introduce to the fundamental problems, concepts, and approaches in the design and to analysis of data visualization systems. |
|---|---|---|---|
| XUNY | UI/UX Design and Animation Lab using Open source Tools | **Professional Ethics** | To demonstrate the techniques of photo editing. Learn the creation of various shapes and working with various files. |

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| PGXA | Database and NoSQL | **Professional Ethics** | To demonstrate concepts of advanced access control techniques like role based and discretionary methods. |
| PGXB | Design and Analysis of Algorithms | **Professional Ethics** | To impart fundamental knowledge on application of data structures in problem solving and about predefined algorithms |
| PGXC | Modern Operating Systems | **Professional Ethics** | To apply the concepts of distributed systems in designing large systems, and recognize the inherent difficulties that arises due to distribution of computing resources. |
| PGXD | Advanced Java Programming | **Professional Ethics** | To impart knowledge on various concepts like networking, database connectivity, web technology implement in java. |
| PGXE1 | Artificial Intelligence | **Professional Ethics** | To perform such intellectual tasks as decision making, problem solving, perception, understanding human communication (in any language, and translate among them) |

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|---|---|---|---|
| PGXE1 | High Performance Computing | **Professional Ethics** | To enhance the national capability in solving grand challenge problems of national and global relevance. Empower scientists & researchers with state-of-the-art compute facilities for their cutting-edge research in respective Domains. |
| PGXE1 | Parallel and Distributed Computing | **Professional Ethics** | To builds on fundamental systems concepts, such as concurrency, mutual exclusion, consistency in state/memory manipulation, message-passing, and shared-memory models. |
| PGXG | Data Science Using Python | **Professional Ethics** | To Explore Python language fundamentals, including basic syntax, variables, and types Create and manipulate regular Python lists. |
| PGXH | Big Data Analytics | **Professional Ethics** | Understand the concepts of Big data and challenges in processing Big Data |
| PGXI | Distributed Technologies | **Professional Ethics** | To learn the principles, architectures, algorithms and programming models used in Distributed systems. |
| PGXL | Virtualization & Cloud Computing | **Professional Ethics** | To understand the concepts, characteristics, delivery models and benefits of cloud computing. |
| PGXE2 | Ethical Hacking | **Professional Ethics** | The opportunity to learn about different tools and techniques in Ethical hacking and security. |
| PGXE2 | Cryptography & Network Security | **Professional Ethics** | To apply different digital signature algorithms to achieve authentication. |
| PGXM | Data Mining and Data Warehousing | **Professional Ethics** | To identify sources of Data for mining and perform data exploration. |

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| PGXO | Machine Learning and R Programming | **Professional  Ethics** | Understand Machine Learning and R, Gain basic ideas on Types and Methods in ML, Fetch insights on R Package. |
| PGXPY | Embedded System | **Professional  Ethics** | To demonstrate the embedded system concepts and architecture of embedded systems. |
| PGXO | Grid Computing | **Professional  Ethics** | To apply principles of best practice in cloud application design and management. |
| PGXE5 | Internet of Things | **Professional  Ethics** | To Implement Data and Knowledge Management and use of Devices in IoT Technology |
| PGXE5 | Human Computer Interaction | **Professional  Ethics** | To understand the important aspects of implementation of human-computer interfaces |
| PGXQP | Internship / Field Work/Project | **Professional  Ethics** | To practice ethical standards appropriate to the internship site |
| PGXM | Web Services | **Professional  Ethics** | To Understand the SOA, its Principles and Benefits and XML concepts |

**NAME OF THE PROGRAMME : COMPUTER APPLICATION**

**PROGRAMME CODE :  UCA**

| COURSE CODE | COURSE  TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| KUA | C Programming | **Environment And Sustainability** | To Learn the basic knowledge of structured programming in C |
| KUF | Java Programming | **Professional  Ethics** | To develop GUI & database Applications using OOPS. |
| KUGY | Java Programming Lab | **Professional  Ethics** | To develop GUI & database Applications using OOPS. |
| KUA6Y | Tally Lab | **Professional  Ethics** | To make students capable to create company, enter accounting voucher entries including advance voucher entries, reconcile bank statement, do accrual adjustments, and also print financial statements, etc. in Tally ERP.9 software. |
| KUA6Y | Internet Lab | **Professional  Ethics** | To understand the basics of Internet, its architecture, uses, technology and the potential threats in the introductory level. |
| KUS1Y | R Programming Lab | **Professional  Ethics** | To explore data from a variety of sources by building regression model and for generating charts, graphs, and other data representations. |
| KUS1Y | Web Application | **Professional  Ethics** | Understand the concepts necessary to create Dynamic Web Applications. Evaluate Several |

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|---|---|---|---|
| | Development Lab | | Alternatives in the Design of a Web Application. |
| KUJ | Computer Networks | **Professional Ethics** | To become an efficient administrator in networking side the concept of data communication is being introduced |
| KUK | Python Programming | **Professional Ethics** | Experience to the learners in HTML programming based on concept learned with program course. Implementation of HTML commands and Cascading Style Sheets. |
| KUE3 | Mobile Computing | **Professional Ethics** | This Course provides overview of coverage of various wireless networks and explains how different stations work with agents to connect mobile world. |
| KUE3 | Big Data and Analytics | **Professional Ethics** | Big Data Analytics consists of Big Data: Concepts and Terminology, Big data Adoption and Planning, Enterprise Technologies and Big Data Business Intelligence and its Storage Technology. |
| KUE3 | Artificial Intelligence | **Professional Ethics** | The course aims to orient the students to develop interest towards Artificial Intelligence (AI) the latest technology. |
| KUS2Y | Python and Bioinformatics Lab | **Professional Ethics** | To design GUI and database applications using PYTHON |
| KUS3Y | Android Lab | **Professional Ethics** | To the design and implementation of mobile applications |
| KUOP | Project | **Professional Ethics** | To understand Software Development Process and to Analyze, Plan, Design and Implement a Software System. |
| KUE5Y | Web Technology and Bioinformatics Lab | **Professional Ethics** | Experience to the learners in HTML programming based on concept learned with program course. Implementation of HTML commands and Cascading StyleSheets. |

## NAME OF THE PROGRAMME : GEOLOGY

## PROGRAMME CODE : USG

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| GUA | The Dynamic Earth | **Environment And Sustainability** | Introduction of the geological process that are dynamically involved in the formation of the planet earth. Evolution of solar system and age of the Earth. |
| GUB | Disaster Management | **Environment And Sustainability** | To Understand the way in which the climate affects our everyday lives. To know what the monsoons are and what causes them To designate any climate station under Koppen's and Thornthwaite climatic scheme. |
| GUD | Physical Geology | **Environment And Sustainability** | To Understand the physical and chemical properties of the lithosphere and atmosphere. To compare and contrast weathering among different rock types and different environments. |
| GUE | Basic Hydrology | **Human Values And Professional Ethics** | To study the physical properties of minerals. Study the pH and their measurements. Make the students understand the water pollution. The Reverse Osmasis system. Gain knowledge on water borne diseases |
| ES | Environmental Studies | **Environment And Sustainability** | Teaches students about the various issues that affect the environment it also highlight different conservations methods to protect and sustain the environment. |
| GUE4 | Natural Hazards, | **Human Values And** | To Learn and practice basic keyboarding and mouse use and search engines, and locate |

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|---|---|---|---|
| | Remote sensing and GIS | **Professional Ethics** | www addresses. Demonstrate an understanding of computer programming language concepts. A basic, practical understanding of GIS and GPS concepts, techniques and real world applications. |
| GUK | Scope of Geology | **Environment And Sustainability** | To Understand the process and features formed due to running water and process of glaciers and ice age. The concepts origin of crystal forms and faces. Recognize and quantify the physical and optical properties of minerals. |
| GUJ | Igneous Petrology | **Human Values And Professional Ethics** | To understand basically the mechanism which controls the diversity of igneous rocks the relationship between tectonic setting and rock suites. The various classify rock studies and different magmatic. |
| GUL | Economic Geology | **Human Values And Professional Ethics** | The basic terminology and classification of orelocalization. The physical properties of oreminerals. The occurrence and distribution of oreminerals. |

**NAME OF THE PROGRAMME : B.Voc SOFTWARE IN MULTIMEDIA AND ANIMATION**

**PROGRAMME CODE : VSW**

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| XVSD | Graphic Design | **Human values And Professional Ethics** | To give the advanced knowledge of image editing and design. |
| XVSF | Social Media Plan and Process | **Human values And Professional Ethics** | To handle all the social media activities for their company/ multiple clients in order to create a brand awareness. |
| XVFSG | Tools and Techniques for Social Media content | **Human values And Professional Ethics** | To create a brand awareness. It comprises of ideating, coordinating, executing social media campaigns, promotions and advertisements. |
| XVGM | Graphic Design Techniques Lab | **Human values And Professional Ethics** | Seek design principles, design process, theory, history and contemporary design practice. |
| XVGO | Java programming | **Human values And Professional Ethics** | To understand the basic concepts of Object Oriented Programming with Java language |
| XVGNY | Multimedia Audio And Video Technology Lab | **Human values And Professional Ethics** | To give technical skills of audio and video editing, so that they may edit and compose sounds and videos as per their need. |

| COURSE CODE | COURSE TITLE | ISSUE ADDRESSED | FOCUS OF THE COURSE |
|---|---|---|---|
| ZVA | Fundamentals of Marine Edible Animals | **Environment & Sustainability** | Living and non-living things in the sea - Marine flora and fauna - Basic characteristics of different sea species - The ocean zones <br> Memorise the names of some sea creatures - Distinguish between sea animals and plants - Understand the relationship between species. <br> To build a strong foundation in marine edible products <br> To prepare Students for career options in aquaculture centres, marine products, etc. |
| ZVD | Biochemical and Microbial Changes in Fish | **Environment & Sustainability** | Keep track of food's quantitative importance in the production of farmed fish, which feed resources you use, and the ratios between the energizing nutrient (Protein, fat and carbohydarate) in commercial feeds. <br> Possess detailed knowledge of the fish digestive system, including a deeper focus on the development of gastrointestinal tract of marine fish larvae. |
| ZVA2Y | General Food Chemistry | **Environment & Sustainability Human values And Professional Ethics** | Students will be able to name and describe the general chemical structures of the major components foods (water, proteins, carbohydrates, and lipids). <br> Students will be able to give a molecular rationalization for the observed physical properties and reactivity of major food components. |

| ZVHY | Fish Nutrition and Feed Technology | **Environment & Sustainability Human values And Professional Ethics** | Have experience with processes both for design and optimizing feed production units, as well as planning and conducting experiments in feed technology. Practical understanding of both feed ingredients and feed processing. Practical experience from all types of processing commonly used in industrial production of feed. |
|---|---|---|---|