

ETHIRAJ COLLEGE FOR WOMEN (Autonomous)

Chennai – 600 008

Affiliated to the University of Madras

College with Potential for Excellence

Reaccredited with A Grade by NAAC



1.1 CURRICULUM DESIGN & DEVELOPMENT

1.1.1 CURRICULUM IMPLEMENTATION

****Programme Educational Objectives,
Programme Specific Outcomes &
Programme Outcomes***

(for UG, PG & M.Phil)

PROGRAMME EDUCATIONAL OBJECTIVES

UG On obtaining an undergraduate degree, the students will be able to:

PEO 1: Apply and advance the knowledge and skills acquired, to become a creative professional in their chosen field.

PEO 2: Engage in self- directed continuous learning, aimed at global competency, which will promote professional and personal growth.

PEO 3: Develop management skills and entrepreneurial skills, by harnessing core competencies tempered by values and ethics.

PEO 4: Work towards achieving economic and social equity for women through application of relevant knowledge.

PEO 5: Contribute to promoting environmental sustainability and social inclusivity.

PROGRAMME OUTCOME (PO)

➤ HUMANITIES

PO 1: Apply the knowledge gained through the study of humanities to address Political, Socio- economic and gender issues.

PO 2: Critically engage with history, linguistic, culture, economy, inclusivity and environment.

PO 3: Aid in the application of mathematical, statistical and econometric tools in solving realistic economic problems.

PO 4: Inculcate skills to evaluate, innovate and integrate the contemporary issues and motivate further learning.

PO 5: Enhance their ethical values, communicative skills and employability skills.

PO 6: Gain quality education, global in perspective to contribute towards holistic development.

➤ SCIENCES

PO 1: To promote and apply scientific knowledge for finding sustainable solution to solve the issues pertaining to the society/Industry.

PO 2: Identify, Analyse and formulate novel ideas to yield, substantial results in the fields of research utilizing the principles of Physical and Biological Science.

PO 3: Relate key concepts and scientific principles to various scientific phenomenon and their applications in day-to-day life. .

PO 4: Cultivate unparalleled comprehension of fundamental concepts relevant to basic sciences leading to an individual progress and career advancement at the National and Global levels.

PO 5: To communicate effectively their views and ideas orally/ written in English and in other related languages.

PO 6: Design solutions for complex problems and design system components or processes that meet the specific needs with appropriate consideration for public health and safety, cultural, societal and environmental conditions.

➤ COMMERCE

PO 1: Acquire with conventional as well as contemporary fields in diverse domains of Commerce and Management.

PO 2: Designed for capacity building to various avenues of employment, entrepreneurship and higher education.

PO 3: Acquire the core competencies of business acumen, analytical & critical thinking, and communication skills and employ empirical approach for effective team building, crisis management and business solutions.

PO 4: Apply the knowledge and skills to thrive on the evolving challenges of trade & industry.

PO 5: Analyse the challenges of the dynamic world with a global outlook.

PO 6: Sensitized to ethical and moral issues in business to be more socially responsible

PO 7: The programme offers comprehensive knowledge on diverse facets of Commerce at the ground level creating a strong base coupled with practical exposure through Projects / Internships and lifelong learning through Self-Study

➤ **BUSINESS STUDIES**

PO 1: Acquaint with conventional as well as contemporary fields in diverse domains of Commerce and Management.

PO 2: Equipped for capacity building to various avenues of employment and entrepreneurship in higher education

PO 3: Demonstrate the core competencies of business acumen, analytical & critical thinking, and communication skills and employ empirical approach for effective team building, crisis management and business solutions.

PO 4: Exhibit the knowledge and skills to thrive on the evolving challenges of trade & industry.

PO 5: Equipped with a global outlook towards facing the challenges of the dynamic world.

PO 6: Sensitized to ethical and moral issues in business to be more socially responsible.

➤ **MANAGEMENT STUDIES**

On completion of the Specific programme, the student will.

PSO 1: Identify the historical and geographical extent of different regions.

PSO 2: Compare the events in the history in different countries and evaluate its consequences.

PSO 3: Analyze the socio-cultural, economic and political activities of India.

PSO 4: Apply the subject knowledge to various fields like Archaeology, Numismatics, Museology, and Archives Keeping.

PSO 5: Create interest in research.

PSO 6: Apply communication skills to inculcate and evaluate varied ideologies.

➤ **ENGLISH**

On completion of the programme, the graduate will be able to:

PSO 1: Read and interpret various literary texts focussing on themes, generic conventions, historical contexts, linguistic and stylistic variations and innovations.

PSO 2: Demonstrate effective communication skills - listening, speaking, reading and writing

PSO 3: Analyse texts, evaluate ideas and apply critical concepts and categories with clarity.

PSO 4: Work independently in terms of reading literary and critical texts and situate one's own reading, be aware of one's position in terms of society, religion, caste, region, gender and politics, to be self-reflexive and self-questioning.

PSO 5: Read values inherited in texts viz a viz, the environment, religion and spirituality to discern and respect difference to transcend binaries.

PSO 6: Use digital sources and digital resources for presentation.

PSO 7: Transfer critical reading skills to other domains of one's life and work. **PSO 8:** Seek employment in the preferred field of interest and pursue higher education.

➤ **ECONOMICS**

On completion of the programme, the graduate will be able to:

PSO 1: To acquire knowledge on economic concepts, theories, models and strategies

PSO 2: To trace the evolution of various schools of thought to facilitate policy making

PSO 3: To acquaint with analytical tools in Mathematics, Statistics, Econometrics and Accounts.

PSO 4: To develop competency on the communication skills to encourage for further study and employment

PSO 5: To recognize economics issues at regional, national and in the global scenario

PSO 6: To respond to the socio-economic challenges prevalent in the society.

HISTORY

On completion of the Specific programme, the student will be able to:

PSO 1: Identify the historical and geographical extent of different regions.

PSO 2: Compare the events in the history in different countries and evaluate its consequences.

PSO 3: Analyze the socio-cultural, economic and political activities of India.

PSO 4: Apply the subject knowledge to various fields like Archaeology, Numismatics, Museology, and Archives Keeping.

PSO 5: Create interest in research.

PSO 6: Apply communication skills to inculcate and evaluate varied ideologies.

➤ **TOURISM AND TRAVEL MANAGEMENT**

On completion of the Specific programme (B.A. Tourism and Travel Management), the student will be able to:

PSO 1: Apply knowledge on the diverse nature of Tourism industry and gain knowledge on the historical development of Tourism over the years.

PSO 2: Plan the tourist products with national and international perspectives on creating, applying and evaluating strategies for tourism organizations.

PSO 3: Demonstrate the students on entrepreneurship in tourism by the knowledge of various core fields in the industry.

PSO 4: Explain practical knowledge on the day to day operations of a travel agency, tour operator, destination management companies, airlines and hotel industry.

PSO 5: Acquire essential skills of industrial functioning.

PSO 6: Determine the demands and face the challenges of the contemporary Tourism industry.

➤ **CHEMISTRY**

On completion of the B.Sc Chemistry programme, the student will be able to:

PSO 1: Gain knowledge in terms of principles, concepts, techniques and processes in core chemistry and related disciplines

PSO 2: Acquire analytical skills through practical training using latest techniques, interpretation and presentation of data and skill sets in solving complex problems

PSO 3: Analyse and evaluate scientific, socio-economic problems and provide independent solutions based on modern scientific approach

PSO 4: Utilise the basic principles in the domain of chemistry and exchange ideas to sensitize the impact of the same on industry at large

PSO 5: Apply the theoretical and experimental ideas of chemistry in building a safe environment and acquire entrepreneurship skills through effective communication

➤ **PLANT BIOLOGY AND PLANT BIOTECHNOLOGY**

On completion of B.Sc Plant Biology and Plant Biotechnology programme, the student will be able to:

PSO 1: Students will be able to assess the different groups of plants, their structural organization and functional aspects and communicate effectively to people the diversity in nature.

PSO 2: Students can evaluate the need and impact of plants in the environment, effect of environmental toxicants on plants and apply methodologies and techniques for conservation, utilization and sustainable development.

PSO 3: Students can critically think and utilize the acquired knowledge and intellectual skills of Botany and Plant Biotechnology to connect interdisciplinary aspects and to broadcast technological changes in various fields of science.

PSO 4: Students apply scientific knowledge and statistical tools for the research outcomes using recent methods and approaches.

PSO 5: Students can integrate and apply all plant breeding techniques and molecular biological technologies in the field of agriculture, food industry and pharmacology for the betterment of human health and socio-economic status of the country

➤ **PHYSICS**

On completion of the programme, the graduate will be able to:

PSO 1: Apply the fundamental knowledge of Physics to appreciate, develop and test physical concepts, for applications in materials, analytical tools in medicine, engineering, technological devices, digitalized space communication etc.,

PSO 2: Identify and access the diverse applications of Physics through the utilization of mathematical concepts to solve complex issues of environmental and safety requirements, enriching towards career advancement.

PSO 3: Formulate the expertise in various domains of Physics acquired through the knowledge of experimental principles to demonstrate, innovate, design and develop the skills towards the futuristic needs of the industry/society.

PSO 4: Compile research based knowledge and methods including design of experiments, analysis, interpretation and evaluation of information, to provide valid critique to the society.

PSO 5: Communicate explicitly and exchange ideas with regard to theoretical and experimental aspects, the impacts of Physics on environment and society.

PSO 6: Apply reasoning, informed by the contextual knowledge to access societal, health, safety, legal, ethical and cultural issues and consequent responsibilities relevant to Physics.

➤ **MATHEMATICS**

On completion of the B.Sc Mathematics Programme, the students will be able to:

PSO 1: Demonstrate basic manipulative and calculative skills in Trigonometry, geometry and Calculus.

PSO 2: Solve problems in advanced areas of mathematics like Algebra and Analysis.

PSO 3: Read, analyse and judge the validity of mathematical arguments.

PSO 4: Students will be able to communicate mathematical ideas both orally and in writing.

PSO 5: Display mastery of basic computational skills and recognise the appropriate use of technology to enhance those skills.

PSO 6: Investigate and apply mathematical models in a variety of contexts related to science, technology, business and industry.

➤ **NUTRITION, FSM AND DIETITICS**

On completion of the specific programme (B.Sc Nutrition, Food Service Management and Dietetics) the student will be able to:

PSO 1: Develop effective communication and foster positive health enhancing practices extending to the community to support sustainable living.

PSO 2: Analyze, interpret, evaluate and use professional literature to make ethical, evidence based decisions facilitating professional collaborations in the field of Nutrition and Dietetics.

PSO 3: Develop core competency skills to support actions that promote social, cultural, economic, ecological and gender equity.

PSO 4: Evaluate, adopt and apply the best practices relating to health, safety, quality and client satisfaction in the field of Nutrition and Dietetics.

PSO 5: To develop critical thinking, decision making attributes and aesthetic skills to enhance professional competency by updating and applying emerging trends and technologies.

PSO 6: To foster entrepreneurial skills, enable pursuit of higher education, research and career in Nutrition, Food Service Management and Dietetics and health education causing meaningful societal impact

➤ **ADVANCE ZOOLOGY AND BIOTECHNOLOGY**

PSO 1: Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology, bio-instrumentation and applied Zoology.

PSO 2: Analyze the relationships among animals with their ecosystems.

PSO 3: Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Clinical science, tools and techniques of Zoology, Toxicology, Sericulture, Biochemistry, Fish biology, Animal biotechnology, Immunology and research methodology.

PSO 4: Understand the applications of Zoology in Agriculture, Medicine and daily life.

PSO 5: Gains knowledge about research methodologies, effective communication and skills of problem solving methods.

PSO 6: Contributes the knowledge for Nation building

➤ **COMMERCE**

On completion of the B. Com Programme, the student will be able to

PSO 1: Acquire conceptual knowledge in functional areas of business such as Accountancy, Finance, Human Resources, Marketing, Taxation, Information Technology, Operations, Costing, Banking and Law.

PSO 2: Put into practice Principles of Accountancy with respect to various forms of Organizations.

PSO 3: Apply legal provisions of various Acts relating to Trade and Commerce essential for the smooth conduct of business.

PSO 4: Audit and Evaluate tax liability of Individuals and Corporate and the incidence of indirect taxation.

PSO 5: Formulate Research plans using Research Concepts and Statistical Tools.

PSO 6: Demonstrate the skill of Computer Applications in Commerce, Accounting, Research and Taxation.

PSO 7: Gain insight into the functioning of Financial Markets and Services and Decision Making.

PSO 8: Exhibit innovative business ideas and skills by perusing Entrepreneurship.

PSO 9: Contribute to the Economic welfare of the Nation as well informed individuals.

PSO 10: Display professional ethics in key areas of Trade and Commerce

➤ CORPORATE SECRETARYSHIP

PSO 1: Possess high quality education in the field of Corporate Secretaryship with a platform to pursue a professional career in company Secretaryship / higher education and research

PSO 2: Strong conceptual knowledge in the fields of Accounting, Taxation, Finance, Management, Economics, Insurance Marketing and Law with special emphasis on company law and secretarial practice

PSO 3: The practical experience gained through Industrial Visit, workshops, training programmes including internship and institutional training in diverse fields of corporate such as Accounting, Taxation, Finance, Laws, Banking, Management, Insurance and Marketing

PSO 4: Experiential learning with industry specific curriculum focused on specific areas which are crucial in the management of companies

PSO 5: Identifies the nuances of business, entrepreneurship, management and consultancy, which would augment knowledge and soft skills required for critical decision making

PSO 6: High exposure to the latest trends in relevant branches of knowledge with the required competence and creativity to face global challenges

PSO 7: Horne communication skills along with good team work, professional and leadership qualities

PSO 8: Demonstrates core competencies and decision making skills to become self employed / Entrepreneur

PSO 9: Exhibits a unique skill set comprising intellectual, personal, interpersonal and social skills to maximize professional growth

PSO 10: Proficient in identifying and understanding recent changes and trends in the field of business

PSO 11: Sensitised to professional, ethical and moral values contributing to be socially responsible citizens

PSO 12: Able to recognise the need for and have the preparation for independent lifelong learning

SELF SUPPORTING

➤ ENGLISH

On completion of the programme, the graduate will be able to:

PSO 1: Read and interpret various literary texts focussing on themes, generic conventions, historical contexts, linguistic and stylistic variations and innovations.

PSO 2: Demonstrate effective communication skills - listening, speaking, reading and writing

PSO 3: Analyse texts, evaluate ideas and apply critical concepts and categories with clarity.

PSO 4: Work independently in terms of reading literary and critical texts and situate one's own reading, be aware of one's position in terms of society, religion, caste, region, gender and politics, to be self-reflexive and self-questioning.

PSO 5: Read values inherited in texts viz, the environment, religion and spirituality to discern and respect difference to transcend binaries.

PSO 6: Use digital sources and digital resources for presentation.

PSO 7: Transfer critical reading skills to other domains of one's life and work.

PSO 8: Seek employment in the preferred field of interest and pursue higher education.

➤ ENGLISH AND COMMUNICATION SKILLS

On completion of B.A. English and Communication Skills programme, the student will be able to

PSO 1: Engage in interpretation, analysis, appreciation, and critique of diverse literatures in English across the world in social, cultural, political and historical contexts.

PSO 2: Apply thematic, critical and theoretical approaches to the analysis of literary texts in various genres of writings in English.

PSO 3: Demonstrate an appreciation of the intrinsic values of life and environmental sensibility, through the study of representative literary texts from different periods and traditions.

PSO 4: Utilize their knowledge of communication techniques and technicalities for expressing their perspectives on contemporary issues.

PSO 5: Synthesize language aesthetics and mechanics with various communication strategies for competency in professional and social discourses.

PSO 6: Effectively and ethically utilize digital resources and technological skills in the fields of literature, language, communication, media and journalism.

PSO 7: Pursue lifelong learning leading to competencies, sensitivity, empathy and inclusiveness

➤ **BUSINESS ECONOMICS**

On completion of the specific programme (B.A. Business Economics) the student will be able to:

PSO 1: Gain specialised knowledge of economic theories and methodologies in facing the diverse challenges of competitive business environment.

PSO 2: Identify the contributions of the notable economic thinkers and their relevance to current methodological developments.

PSO 3: Demonstrate knowledge on the determinants of macro-economic conditions, interaction of monetary and fiscal operations, business policies and strategies in economic development.

PSO 4: Evaluate the economic role of financial markets and systems in enabling inclusive growth.

PSO 5: Designed to meet the growing need for quantitative analytical skill to support decision making in the field of economics and business using statistics, mathematics, accounting and econometrics techniques.

PSO 6: Explain how the business organisation works by applying economic principles and thereby enhance entrepreneurial skills and acquire career opportunities.

➤ **MATHEMATICS**

On completion of the B.Sc Mathematics Programme, the students will be able to:

PSO 1: Demonstrate basic manipulative and calculative skills in Trigonometry, geometry and Calculus.

PSO 2: Solve problems in advanced areas of mathematics like Algebra and Analysis.

PSO 3: Read, analyse and judge the validity of mathematical arguments.

PSO 4: Students will be able to communicate mathematical ideas both orally and in writing.

PSO 5: Display mastery of basic computational skills and recognise the appropriate use of technology to enhance those skills.

PSO 6: Investigate and apply mathematical models in a variety of contexts related to science, technology, business and industry.

➤ **COMPUTER SCIENCE**

On completion of the specific programme (B.Sc Computer Science) the student will be able to:

PSO 1: Ability to design and develop computer programmes using the standard principles of programming for to develop a quality product in the context of changing technology.

PSO 2: To meet the industrial needs by developing various innovative applications using the recent technologies by keeping pace with ethical, security and legal issues.

PSO 3: To impart the knowledge on how to collect and correlate the data by applying various mathematical methodologies to solve computational tasks using appropriate algorithms.

PSO 4: Ability to prepare/pursue for continuous professional development and in various Corporate Sectors.

PSO 5: Ability to use knowledge in various domains to identify research gaps and provide solutions to new ideas and innovations.

PSO 6: To impart the knowledge to learn the concept on how the data/information is transmitted fast and secure in the IT ruling environment

➤ **BIOCHEMISTRY**

On completion of B.Sc Biochemistry, the student will be able to:

PSO 1: Communicate the fundamental concepts of specific molecules, enzymes, cells, organ systems and metabolism of compounds

PSO 2: Apply the knowledge and expertise in industries, diagnostic laboratories and various research fields

PSO 3: Impart practical skills and scientific knowledge in domains of molecular biology, enzymology, genetics, clinical biology and immunology

PSO 4: Develop problem solving ability by utilizing the conceptual knowledge, analytical techniques, computational and statistical approaches.

PSO 5: Facilitate to pursue post-graduation in related fields in life sciences and contribute their knowledge to the betterment of the society in various research and health care sectors.

➤ MICROBIOLOGY

PSO 1: Outline the History, Systematics, Biodiversity, Morphology and Physiology of Microorganisms.

PSO 2: Apply current techniques to Microbial systems and harness the potentials of Microorganisms in various divisions of Microbiology for betterment of mankind.

PSO 3: Analyse the concepts in Microbial Genetics, Immunity, Biotechnology and methods involved in diagnosis of Infectious diseases and Immunological disorders.

PSO 4 Evaluate the role of Microorganisms in Clinical Pathogenesis, Food Safety, Agriculture, Dairy, Bioprocessing and Pharmaceutical Industries.

PSO 5: Utilize Analytical, Computer and Statistical skills in various fields of Life Sciences.

PSO 6: Apply Communication skills, Core values and Environmental awareness with Social responsibility for Entrepreneurship and Employability.

➤ PSYCHOLOGY

On completion of the undergraduate programme in Psychology, the student will

PSO 1: Acquire knowledge on key concepts and theoretical approaches and gain understanding of the origin and recent advances in the discipline.

PSO 2: Be able to think originally, utilize the knowledge and understanding of Psychology to develop, appreciate and test the theoretical concepts for applications in various arenas.

PSO 3: Assess and critically evaluate central ideas and assumptions comprehensively facilitating research and analysis of data.

PSO 4: Use the relevant sources of scientific knowledge to identify and generate novel solutions for problems for enhancement of self and community.

PSO 5: Effectively communicate learned information both in written and oral format

PSO 6: Develop capacity for individual and team work, understand and implement ethical principles necessary for professional upgradation.

➤ CLINICAL NUTRITION & DIETETICS

On completion of the specific programme, the under graduate students will be able to

PSO 1: Gain in depth knowledge on concepts, theories, principles of food science, food service management, food preservation, interior decoration, child development, physiology, biochemistry, microbiology, basic nutrition, clinical nutrition, life span nutrition, medical

nutrition therapy and public health nutrition relate it to the holistic development and wellness of the individual, family and community at large.

PSO 2: Develop effective communication and foster positive health enhancing practices extending to the community to support sustainable living.

PSO 3: Develop interpersonal communication, aesthetics, academic, analytical and managerial skills for individual growth and well being.

PSO 4: Analyze the knowledge and skills gained through the academic pursuit for enhancing the quality of life of people and undertake intervention programme to solve the nutrition problem confronting our nation.

PSO 5: Engage in lifelong learning process and prioritize the acquired professional skills for empowerment of society.

PSO 6: Equip professional competency to become successful entrepreneurs, nutritionists and to pursue higher education

➤ **VISUAL COMMUNICATION**

PSO 1: Interpret and apply the theory of communication and demonstrate in media.

PSO 2: Understand and analyze the concepts of media and society

PSO 3: Remembering the technique used to produce films, design, photograph, illustration, animation.

PSO 4: Design innovative ideas and utilize in media industry.

PSO 5: Evaluating the plan and construct ideas in creative industry

➤ **MATEMATICS WITH COMPUTER APPLICATION**

PSO 1-Understanding of Mathematical concepts help students to analyse and solve problems which is useful in clearing competitive exams. And cultivate the practice of constructing proofs using basic axioms which helps in research and advance programme.

PSO 2-Identify the applications of Mathematics in other disciplines and society to solve real life problems. Logical thinking and reasoning enhances the capability of solving complex problems to meet the opportunities of career development and higher studies.

PSO 3-Provide programme in Mathematics that enable students to define Mathematical concepts, calculate quantities, estimate solutions, solve problems, represent Mathematical information, interpret data and communicate Mathematical thoughts.

PSO 4-The ability to understand, analyse and develop computer programmes in the areas related to Mathematics, Algorithm, System software, Web design and Networking for efficient designs of Computer-based programmes.

PSO 5-Explore technical knowledge in diverse areas of Mathematics and Computer Applications and experience on environment conducive in cultivating skills for successful career, Entrepreneurship

➤ **COMMERCE**

On completion of the B. Com Programme, the student will be able to

PSO 1: Acquire conceptual knowledge in functional areas of business such as Accountancy, Finance, Human Resources, Marketing, Taxation, Information Technology, Operations, Costing, Banking and Law.

PSO 2: Put into practice Principles of Accountancy with respect to various forms of Organizations.

PSO 3: Apply legal provisions of various Acts relating to Trade and Commerce essential for the smooth conduct of business.

PSO 4: Audit and Evaluate tax liability of Individuals and Corporate and the incidence of indirect taxation.

PSO 5: Formulate Research plans using Research Concepts and Statistical Tools.

PSO 6: Demonstrate the skill of Computer Applications in Commerce, Accounting, Research and Taxation.

PSO 7: Gain insight into the functioning of Financial Markets and Services and Decision Making.

PSO 8: Exhibit innovative business ideas and skills by perusing Entrepreneurship.

PSO 9: Contribute to the Economic welfare of the Nation as well informed individuals.

PSO 10: Display professional ethics in key areas of Trade and Commerce

➤ CORPORATE SECRETARYSHIP

PSO 1: Possess high quality education in the field of Corporate Secretaryship with a platform to pursue a professional career in company Secretaryship/ higher education and research

PSO 2: Strong conceptual knowledge in the fields of Accounting, Taxation, Finance, Management, Economics, Insurance Marketing and Law with special emphasis on company law and secretarial practice

PSO 3: The practical experience gained through Industrial Visit, workshops, training programmes including internship and institutional training in diverse fields of corporate such as Accounting, Taxation, Finance, Laws, Banking, Management, Insurance and Marketing

PSO 4: Experiential learning with industry specific curriculum focused on specific areas which are crucial in the management of companies

PSO 5: Identifies the nuances of business, entrepreneurship, management and consultancy, which would augment knowledge and soft skills required for critical decision making

PSO 6: High exposure to the latest trends in relevant branches of knowledge with the required competence and creativity to face global challenges

PSO 7: Horne communication skills along with good team work, professional and leadership qualities

PSO 8: Demonstrates core competencies and decision making skills to become self employed / Entrepreneur

PSO 9: Exhibits a unique skill set comprising intellectual, personal, interpersonal and social skills to maximize professional growth

PSO 10: Proficient in identifying and understanding recent changes and trends in the field of business

PSO 11: Sensitised to professional, ethical and moral values contributing to be socially responsible citizens

PSO 12: Able to recognise the need for and have the preparation for independent lifelong learning

➤ **BANK MANAGEMENT**

PSO 1: Demonstrate progressive knowledge in the key areas of Commerce such as Banking, Business and Finance and apply the methods of inference to practical situations.

PSO 2: Solve problems in a dynamic business environment by applying the principles and practices with a broad understanding of its legal, societal and economic bearing.

PSO 3: Career and/or higher studies opportunities in Banking, Finance, Accounting, Taxation, Marketing, Human Resource and other administrative departments.

PSO 4: Recognise the roles and responsibilities of banker, entrepreneur, accountant, administrator and expert and exhibit high order thinking and proficient decision making while confronted with a critical situation.

PSO 5: Acquire the attributes of effective interaction, leadership, problem solving and adaptability in day to day business matters.

PSO 6: Display proficiency to undertake Banking competitive exams and other exams like CA, CS, ICWA etc

➤ **COMMERCE HONORS**

PSO 1 : To integrate theoretical knowledge and practical insights of the convention and contemporary fields of commerce.

PSO 2 : To prepare students for the pursuit of professional, competitive examinations and higher studies and career.

PSO 3 : To analyze evaluate solve case studies on dimensions of accounting, taxation and business problems by analytical and critical thinking

PSO 4 : To enhance technical skills, job skills and computerised accounting skills for the progress and betterment of the students.

PSO 5 : To encourage research in the thrust areas of commerce and to inculcate life long learning.

➤ **ACCOUNTING & FINANCE**

On completion of B.Com Accounting and Finance programme, graduates will be able to:

PSO 1: Apply in-depth knowledge in diverse fields of Commerce, Accounting and Finance.

PSO 2: Keep pace with the dynamic industrial changes and managerial practices by demonstrating technological, research and computing skills.

PSO 3: Comply with the global wide Human Resource requirements to assume challenging roles in various avenues of Accounting, Finance, Taxation, Auditing and Management.

PSO 4: Equip with comprehensive knowledge to pursue higher education and professional courses like CA, CMA, ACCA, CPA, CFA.

PSO 5: Enrich skill sets for effective communication, decision making, problem solving through analytical and critical thinking to emerge as successful business leaders.

➤ **BUSINESS ADMINISTRATION**

PSO 1: Develop conceptual and practical knowledge in the field of business and management.

PSO 2: Provide strong analytical and critical thinking foundation enabling problem solving skills in the various disciplines of management.

PSO 3: Demonstrate leadership qualities to take the business/firm to greater heights.

PSO 4: Enhance the employability and professional skills to become successful managers/executives in reputed firms.

PSO 5: Manage their business more successfully and also to identify new business opportunities and marketing avenues to establish start-ups.

PSO 6: Strengthen the ability to learn continuously to adapt to the dynamic challenges of the business world and lead business with conscience- moral, ethical and environmental values.

➤ **COMPUTER APPLICATION**

PSO 1 : Demonstrate the ability to adapt to technological changes and innovations in the discipline

PSO 2 : Analyze, design, implement and evaluate computerized solutions to real life problems using appropriate computing methods.

PSO 3 : Develop skilled manpower in various areas of software industry.

PSO 4 : Develop a small programmes for personal use and implementing a software product.

PSO 5 : Possess strong foundation for their higher studies.

PSO 6 : Blend analytical, logical and managerial skills with the technical aspects to resolve business challenges.

POST GRADUATE PROGRAMME

PROGRAMME EDUCATIONAL OBJECTIVES

On obtaining a postgraduate degree the students will be able to:

- PEO 1:** Display higher order thinking in the knowledge domain and demonstrate professional skills
- PEO 2:** Contribute to the advancement and application of relevant knowledge by self-directed learning
- PEO 3:** Extend and integrate knowledge and skills to design and develop novel products and explore innovative solutions to national and international goals of development.
- PEO 4:** Exercise management skills and develop social interactions in a responsive, ethical and constructive way to meet global standards of excellence in all spheres of activity.
- PEO 5:** Strive for social and economic equity based on the need for gender parity and ecological sustainability.

PROGRAMME OUTCOMES (PO)

➤ HUMANITIES

- PO 1** - Apply the knowledge gained through the study of humanities to address Political, Socio- economic and gender issues.
- PO 2** - Critically engage with history, linguistic, culture, economy, inclusivity and environment.
- PO 3** - Aid in the application of mathematical, statistical and econometric tools in solving realistic economic problems.
- PO 4** - Inculcate skills to evaluate, innovate and integrate the contemporary issues and motivate further learning.
- PO 5** - Enhance their ethical values, communicative skills and employability skills.
- PO 6** - Gain quality education, global in perspective to contribute towards holistic development.

➤ **SCIENCES**

- PO 1**– To acquire advanced conceptual knowledge and comprehensive understanding of the fundamental principles in respective discipline
- PO 2**– To apply knowledge and critically evaluate the concepts and scientific developments to take up any challenge
- PO 3**- To visualize and work on laboratory multidisciplinary tasks related to current research in the fields of Mathematical, Physical and Life sciences
- PO 4**– To acquire research based knowledge and design methods to conduct investigations of complex problems in research/ Industrial field and achieve employability / self employment.
- PO 5**- To communicate effectively ideas verbally in English, leading to Entrepreneurship ventures such as consultancy and training
- PO 6**- Employ innovative and environment friendly methods, novel ideas to solve complex and challenging societal and environmental issues.

➤ **BUSINESS STUDIES**

- PO 1:** Apply contextual and practical knowledge endowed professionally for the academic and corporate world.
- PO 2:** Identify the research aptitude to pursue research in new and advanced areas.
- PO 3:** Apply skill sets for critical and analytical thinking, communication and leadership in all walks of life.
- PO 4:** Acquire highly creative and innovative ability to provide ethical business solutions for better community living & welfare of the nation.
- PO 5:** Identify, design & formulate projects relating to the need of the environment for sustainable development.
- PO 6:** Engage in lifelong learning to be equipped with a global outlook towards facing the challenges of a dynamic world.

➤ PSYCHOLOGY

At the end of the postgraduate programme in **psychology**, the student will be able to:

PO 1: Extend the knowledge base in psychology through scientific inquiry, critical thinking and experiential learning.

PO 2: Describe key concepts, general principles and vital ideas central to the field of psychological science and utilise the knowledge of specific techniques for application in appropriate contexts.

PO 3: Formulate research topics of social relevance to comprehend and predict the influence of factors with the potential to impact individual's and society and to develop interventions for promoting change.

PO 4: Develop personal and professional skills that can facilitate students to explore career opportunities in varied fields of social science, arts, humanities and business

PO 5: Communicate effectively ideas in English both in written and oral format, facilitating entrepreneurial ventures such as consultancy and training

PO 6: Demonstrate an understanding of the influence of cross cutting themes and issues such as gender, values and ethics to a deal effectively with its inherent challenges.

➤ TAMIL

PSO1:பட்டதாரிகளுக்கு ஆராய்ச்சியைத் தொடர்வதற்கான அடிப்படை கல்வியைப் பெறுதல்.

PSO2: தொடர்புடைய தொழில்களில் வெற்றிகரமான தொழில்வாய்ப்புமற்றும் வேலைவாய்ப்பைப் பெறுதல்.

PSO3: படைப்பாற்றல் மூலம் சிறந்த எழுத்தாளராக, கவிஞராக உருவாகி, சமூகத்தில் அடையாளத்தைப் பெறுதல்.

PSO4: தாய்மொழியில் ஆழ்ந்த அறிவினைப் பெறுதல்.

PSO5: பல்வேறு இலக்கியங்களையும் வகைப்பாடுகளையும் அறிந்து திறனாய்வு செய்யும் ஆற்றலைப் பெறுதல்.

PSO6 : சமூகத்தைப் பகுத்தாய்ந்து பார்க்கும் கண்ணோட்டத்தைப் பெறுதல்.

➤ ENGLISH

On completion of M.A. English, students will be able to:

PSO 1: Identify texts relating to society, culture, ethnicity and ecology of Literature.

PSO 2: Apply critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres.

PSO 3: Identify and extend the impact of ideas, values and themes in literature in the society.

PSO 4: Apply the research writing skills into completing a project exhibiting core competency and nuance of Literature.

PSO 5: Gather, evaluate and synthesize information from a variety of linguistic, literary, language teaching theories and texts.

PSO 6: Evaluate texts of English teaching skills to improve competency in Language and Linguistics.

PSO 7: Demonstrate skills involving technology to accommodate the changing trends of Literature.

PSO 8: Demonstrate proficiency of English language and technology to suit today's global scenario and acquire employability.

PSO 9: Develop as morally upright individuals who would contribute to the betterment of the society

➤ ECONOMICS

PSO 1: To develop an understanding of advanced theoretical aspects in Economics and its applications in problem solving/decision making

PSO 2: Critically review the various regional, national and global economic issues

PSO 3: Analyse the implications of economic variables using data and models for solving development issues.

PSO 4: To enhance their professional, employability and career prospects

PSO 5: To acquire knowledge on core aspects in financial, health and environmental economics and formulate policies for economic and sustainable development

PSO 6: To focus on socio-economic issues in the preparation of individual projects with Mathematics, Statistics and Econometric tools using software

➤ HISTORY

On completion of the Specific programme, the student will be able to

PSO 1: understand the various aspects of research, historians and the different schools of thought.

PSO 2: gain knowledge and is ready to teach young minds.

PSO 3: adapt to the demands and are ready to be independent physically, mentally and financially.

PSO 4: to understand the diverse nature of research focussing to regional history.

PSO 5: acquire quantitative and qualitative knowledge on the subject and gain indepth knowledge in the regional history

➤ ZOOLOGY

PSO 1 : To enhance the knowledge in advanced areas of zoology.

PSO 2 : A deeper understanding of key concepts in biology at cellular, biochemical, physiological, embryological,ecological and molecular level.

PSO 3 : Students gain knowledge and skills in the fundamentals of behavrioual sciences, animal association and their relation to the environment.

PSO 4: To promote learning and create interest in research.

PSO 5 : To develop scientific approach and problem solving skills.

PSO 6 : Update the modern trends in biological research and help to seek job opportunities world wide.

➤ CHEMISTRY

On completion of the specific programme the student will be able to:

PSO 1: Acquire in depth knowledge at an advanced level enabling confidence to face competitive examinations of national and global standards and capable of doing higher-level research independently

PSO 2: Utilize skills in problem solving, critical thinking, analytical reasoning in chemistry domain and use modern techniques, chemistry software to interpret and design scientific processes

PSO 3: Enhance Skill in planning and conducting advanced level chemical experiments, elucidating the structure of compounds / complexes using chemical characterization techniques

PSO 4: Develop a creative scientific mind to communicate effectively in public forums scientific ideas and their impact on socio-economic issues and also provide value based ethical leadership and sensitize the need for a green environment

PSO 5: Apply the contextual knowledge of chemistry to function effectively as an individual / team leader / entrepreneur in academic field, chemical or related industries

➤ **COMMERCE**

On completion of the specific programme the researcher will be able to:

PSO 1: Apply the knowledge of latest trends in Commerce relating to human resource management, marketing, banking, entrepreneurial development and finance.

PSO 2: Analyze and evaluate the complex problems in business with an understanding of the contextual and practical knowledge gained.

PSO 3: Prepare for a career in teaching and research.

PSO 4: Equipped for employment in Government and Private Research institutions

PSO 5: Engage in lifelong learning by being equipped with a global outlook towards facing challenges of the dynamic world.

PSO 6: Acquire proficiency and analytical skills in areas of commerce along with hands on experience in organizations with respect to research project/work.

➤ **BUSINESS ECONOMICS**

PSO 1: To develop understanding of advanced theoretical aspects in Economics and its applications in problem solving/decision making

PSO 2: Critically review the various regional, national and global economic issues

PSO 3: Analyse the implications of economic variables using data and models for solving development, management and business issues.

PSO 4: To enhance their professional employability and career prospects

PSO 5: To acquire knowledge on core aspects in financial, health and environmental economics and formulate policies for economic and sustainable development

PSO 6: To focus on business/corporate/industrial issues in the preparation of individual projects with Mathematics, Statistics and Econometric tools using software

SELF-SUPPORTING STREAM

➤ COMMERCE

On completion of the specific programme the researcher will be able to:

PSO 1: Apply the knowledge of latest trends in Commerce relating to human resource management, marketing, banking, entrepreneurial development and finance.

PSO 2: Analyze and evaluate the complex problems in business with an understanding of the contextual and practical knowledge gained.

PSO 3: Prepare for a career in teaching and research.

PSO 4: Equipped for employment in Government and Private Research institutions

PSO 5: Engage in lifelong learning by being equipped with a global outlook towards facing challenges of the dynamic world.

PSO 6: Acquire proficiency and analytical skills in areas of commerce along with hands on experience in organizations with respect to research project/work.

➤ HUMAN RIGHTS AND DUTIES EDUCATION

PSO 1: Knowledge: Apply the knowledge of the theories and concepts in the field of human rights into practice by adopting an interdisciplinary approach.

PSO 2: Skills: Use the analytical skills attained to solve the complex problems in the field of human rights with an understanding of the economic, social, environmental, legal and cultural impacts of the solution

PSO 3 : Attitude: Apply the contextual knowledge of human rights to function effectively as an individual and being able to analyze a situation from multiple perspectives.

PSO 4: Synthesize, compare, evaluate, classify, interpret and effectively apply the basic laws, principles, phenomena, processes and mechanisms involved in the domain of human rights

PSO 5: Advocate and communicate on human rights and fundamental freedoms and sensitize the society to create a larger impact.

➤ PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

PSO 1 Apply the contextual knowledge to assess the Plant diversity, conservation, vegetative and reproductive parts of different plant forms and procure insight on concepts of Cytology and Genetics.

PSO 2 Employ innovative ideas and methods based on their practical experience and knowledge on sophisticated instruments to solve complex and challenging issues in Plant Biology, Biotechnology and allied fields.

PSO 3 Analyze data using appropriate statistical methods and think critically to design and execute an experiment with confidence.

PSO 4 Utilize the scientific skills and communicate effectively through written work, seminar and project work.

PSO 5 Stakeholders can attend and clear the competitive exams and take up promising careers in research, government and private sectors.

➤ **MATHEMATICS**

On completion of the programme M.Sc. Mathematics, the students will be able to:

PSO 1 - Apply knowledge of Mathematics in different field of science, business studies and technology.

PSO 2 - Acquire knowledge and understanding in advanced areas of Mathematics, from the courses offered.

PSO 3 - Provide students with advanced mathematical and computational skills that prepares them to pursue higher studies and conduct research.

PSO 4 - Train students to deal with the problems faced by software industry through knowledge of mathematics and scientific computational techniques.

PSO 5 - Provide students with knowledge and capability in formulating, analyzing mathematical models of real life applications, to develop abstract mathematical thinking and to crack the competitive examinations.

➤ **CORPORATE SECRETARYSHIP**

PSO 1 - Exhibits profound knowledge and understanding of advanced concepts in areas of accounting, taxation, finance, law, information technology and management thereby enhancing their cognitive and analytical skills

PSO 2 - Utilise the practical experience gained through Industrial Visit, workshops, training programs and internships in diverse fields of business such as accounting, taxation, finance, laws, information technology, banking, management, insurance and marketing

PSO 3 - Fosters potential managers and successful entrepreneurs through application of experiential learning

PSO 4 - Critical and quick decision making ability in all endeavours

PSO 5 - Equipped to face the global challenges through updated knowledge in various fields

PSO 6 - Effective computational, articulation and communication skills along with excellent team work, professional and leadership qualities

PSO 7 - Demonstrates a unique skill set comprising intellectual, personal, interpersonal and social skills to maximize professional growth

PSO 8 - Highly sensitised to professional, ethical and moral values contributing to be socially responsible citizens

PSO 9 - Ability to recognise the need for research and undertake socially relevant projects

Prepared for lifelong learning and independent thinking

➤ **FOOD AND NUTRITION**

PSO 1: Acquire in-depth knowledge on the principles, theory and its application in food science, product development cycle, food preservation, physiology, clinical and nutritional biochemistry, food microbiology, advanced studies in human nutrition; food-drug interaction and medical nutrition therapy for health and fitness

PSO 2: Demonstrate the understanding of skills and knowledge acquired in the various areas of food and nutrition for the wellness of the community and sustainable development of the society.

PSO 3: Apply the skills of creativity, comprehension, critical thinking and communication, to eradicate the problems of malnutrition by disseminating knowledge on holistic nutrition, fitness, and wellness.

PSO 4: Recognize, understand and undertake innovative research in the field of food and nutrition, based on the current scenario for the betterment of the community.

PSO 5: Plan, prepare, and excel in the field of nutrition, food science, food standardization, diet planning and counseling, scientific writing and reporting skills

PSO 6: Develop the need for evidence based clinical studies; new techniques in assessing nutritional status and novel food products to become professionally competent dieticians, nutritionists or entrepreneurs and take up careers in academics, health care and service industry.

➤ PHYSICS

PSO 1-Organize and coherently communicate their knowledge in theoretical and experimental aspects of Physics which enables them to take up teaching Physics at college and school levels.

PSO 2-Demonstrate critical analysis, logical reasoning and problem-solving skills required in the application of the principles of Physics. Display numerical and transferable skills to allow them to take up broad career choices in data analysis or computing.

PSO 3-Plan and implement experimental work, analyse and interpret results, estimate errors involved to make recommendations for enhanced results ensuring their employability in academic and industrial establishments, research and development.

PSO 4-Utilise their profound understanding of the core subjects for clearing CSIR, SLET, NET and other competitive examinations and the knowledge gained from the specialized elective papers for advanced research.

PSO 5-Identify and assess current research areas of interest in physics making them proficient for research at a higher level as a consequence of the experience gained on completion of the supervised project as part of the course.

PSO 6-Appreciate the role of physics in society, environment, safety and ethical issues while suggesting solutions.

➤ BIOCHEMISTRY

On completion of M.Sc Biochemistry the students will be able to :

PSO 1: Explain the fundamental concepts of biomolecules, enzymes, cells, organ systems and metabolism.

PSO 2: Demonstrate practical skills and scientific knowledge in domains of Molecular Biology, Enzymology, Genetics, food analysis, Clinical Biochemistry, Immunology, Pharmacology and Bioinformatics.

PSO 3: Develop problem solving ability by utilizing the conceptual knowledge, analytical techniques, computational and statistical approaches.

PSO 4: Apply the knowledge and expertise in industries and diagnostic laboratories enhancing job prospects

PSO 5: Pursue research in life sciences and contribute their knowledge to the betterment of the society in various research and health care sectors. Utilise effective scientific communication skills both written & oral enabling them to present / publish papers and apply for grants & patents.

APPLIED MICRO BIOLOGY

PSO 1- Analyse the fundamental concepts and biodiversity of microorganisms, enabling critical thinking in different fields of Microbiology.

PSO 2- Demonstrate the importance of immunity, pathogenesis, cultivation, diagnosis and control of pathogens through therapeutics and prophylaxis in various Health and Pharmaceutical domains.

PSO 3- Evaluate and Identify the needs, potentials and impact of microorganisms relevant to food, soil and agriculture, ensuring environmental conservation and food safety.

PSO 4- Design appropriate strategies in bio-processing and fermentation technology, with emphasis on industrial production of biomass and their products.

PSO 5- Apply the concepts of Genomics and Proteomics through analytical, molecular and in silico techniques for the betterment of society.

PSO 6- Examine the significance of research using statistical tools and communicate the findings in research forums.

PSO 7- Ensure bio-safety and bioethics for social responsibility, environmental sensitization and obtain Intellectual Property Rights for various research findings.

PSO 8- Apply computing, communicative and entrepreneurial skills for employability and life long learning.

➤ MASTER OF BUSINESS ADMINISTRATION

After completion of the program, the student will be professionally equipped and will

PSO 1: Demonstrate and apply various management processes, theories, models and functions across business verticals in managerial and administrative capacity.

PSO 2: Acquire and practice managerial skills and competencies required for a successful management role / function in various functional domains towards holistic development.

PSO 3: Exposed to multidisciplinary approach and will be able to apply and analyze in a multicultural/global perspective towards creative problem solving at individual organisational front.

➤ MASTER OF COMPUTER APPLICATION

After completing the course, the research scholars will be able to,

PSO 1: Analyze the impact of new emerging areas of computer science in the global, economic, environmental and societal context.

PSO 2: Acquire in-depth knowledge in the process of developing new ideas as well as gain expertise in the defined areas of research in computer science.

PSO 3: Develop innovative methodologies to challenging issues identified and contributing to the development of technological knowledge and intellectual property.

PSO 4: Ability to apply mathematical knowledge to solve complex task, model real world problems using appropriate innovative technologies.

PSO 5: Facilitate knowledge in various domains to identify research gaps and hence to provide solution to new ideas and innovations.

➤ **BANKING AND INSURANCE MANAGEMENT**

PSO 1: Enhance the horizon of knowledge and the techniques of managing the business with special focus on Insurance and Banking theory, law and practice.

PSO 2: Apply theory to practice with an opportunity to display an in-depth understanding and expertise in the field of Banking and Insurance through internships and projects.

PSO 3: Demonstrate analytical and interpretative qualities and competencies with a greater focus on current practices and industrial requirements.

PSO 4: Develop inter personal skills, teamwork, leadership, critical thinking and problem solving with an ability to handle challenging environments.

PSO 5: Adopt a reflective approach to career and professional development and embrace the philosophy of lifelong learning.

PSO 6: Attain eligibility and gain aptitude to undertake independent research in a chosen discipline, join professional courses and apply for examinations like NET, SET, UPSC and other recruitment board exams.

➤ **JOURNALISM AND COMMUNICATION**

On completion of M.A. Journalism and Communication the student will be able to:

PSO 1 - Demonstrate knowledge of theory and practical to understand the various aspects of communication by constructing, implementing and reinterpreting communication theories.

PSO 2 - Develop skills required to participate in, design and implement research projects and discuss issues and ideas related to the field of journalism and communication.

PSO 3 - Extend range of leadership skills and exhibit initiative while working in collaboration and demonstrate ability to work in team with self awareness of personal strengths and limitations.

PSO 4 - Devise the ability and inquisitiveness to continuously update themselves with respect to the recent trends in field of journalism and communication.

PSO 5 - Assess Indian issues from different perspective and apply them in the field of Journalism and communication

➤ **HUMAN RESOURCE MANAGEMENT**

PSO 1 - Acquire advanced knowledge in the principles of HRM and its application in individual, group and organizational levels.

PSO 2 - Assess develop and align organizational Human resources with corporate strategies

PSO 3 - Proficient in Managing the teams with appropriate leadership and interpersonal skills

PSO 4 - Sensitized to changing industrial environment and be competent to become successful managers/entrepreneurs

PSO 5 - Articulate HR competencies to critically analyze and take strategic decisions in the workplace

PSO 6 - Recognize, analyze and address ethical, legal and social challenges to create conducive environment resulting in satisfied and committed workforce.

PSO 7 - Attain congruence between personal norms and ethical principles to be socially responsible citizens

➤ **APPLIED PSYCHOLOGY**

At the end of the Post Graduate program in Psychology, the students will be able to:

PSO 1 - Explore key theoretical approaches and acquire advanced knowledge in the field of applied psychology through experiential learning process including case studies, internships, oral presentations and simulated activities

PSO 2 - Critically examine, assess, analyse and evaluate biological, psychological, social and cultural factors that influence the well-being of individuals and groups

PSO 3 - Formulate and conduct research of practical importance in various speciality areas of psychology, using appropriate quantitative and qualitative data analysis methods.

PSO 4: Extend the knowledge obtained from theory and evidence based research, to develop interventions using psychodynamic, behavioural, cognitive and contemporary therapeutic approaches of counselling at the level of individual and community.

PSO 5: Develop effective communication to obtain and convey psychological knowledge both in written and oral format to both scientific and common people.

PSO 6: Develop life skills and counselling skills to identify ethical dilemmas that may arise in personal and professional settings and apply the knowledge to effectively deal with the challenges in personal, social and work context.

M.Phil. RESEARCH PROGRAMME

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

On obtaining a research degree the scholar will be able to:

PEO 1: Demonstrate advanced domain knowledge competencies and display high order discerning and synthesizing capabilities to address local, regional and national concerns through innovative well researched solutions.

PEO 2: Continue to serve the community of professionals and experts as both independent and team player with a strong grounding in ethics, inclusivity, gender parity and environmental sustainability.

PROGRAMME OUTCOMES (PO)

➤ HUMANITIES

On completion of the Programme, the learner will be able to:

PO 1: apply the knowledge gained through the study of humanities to address societal issues and critically engage with history, culture, economy, gender, inclusivity and environment.

PO 2: identify students' ability to analyze challenges and make effective decisions.

PO 3: designs skills to evaluate, innovate and integrate the contemporary issues and motivate further learning.

PO 4: acquire ethical values, employability skills and communicate competently.

PO 5: analyse to gain quality education that is global in perspective and contribute to holistic development

➤ **SCIENCES**

On completion of the Programme, the learner will be able to:

PO 1: To acquire advanced conceptual knowledge and comprehensive understanding of the fundamental principles in respective discipline.

PO 2: To apply knowledge and critically evaluate the concepts and scientific developments to take up any challenge.

PO 3: To visualize and work on laboratory multidisciplinary tasks related to current research in the fields of Mathematical, Physical and Life sciences

PO 4: To acquire research based knowledge and design methods to conduct investigations of complex problems in research/ Industrial field and achieve employability / self-employment.

PO 5: To communicate effectively ideas verbally in English, leading to Entrepreneurship ventures such as consultancy and training.

PO 6: Employ innovative and environment friendly methods, novel ideas to solve complex and challenging societal and environmental issues.

➤ **BUSINESS STUDIES**

On completion of the M.Phil Programme, the researcher will be able to:

PO 1: Apply contextual and practical knowledge endowed professionally for the academic and corporate world.

PO 2: Identify the research aptitude to pursue research in new and advanced areas.

PO 3: Apply skill sets for critical and analytical thinking, communication and leadership in all walks of life.

PO 4: Identify, design & formulate projects relating to the need of the environment for sustainable development.

PO 5: Plan for any area of specialisation relating research in initiatives relating to contemporary areas in business and design teaching methodology based on practical exposure gained for lifelong learning. (USP)

PROGRAMME SPECIFIC OUTCOMES (PSO)

➤ TAMIL

PSO 1: ஆய்வு முறையை மாணவர்களுக்கு விளக்குதல்

PSO2: ஆய்வேட்டின் அமைப்புமுறையை ஆய்வு நோக்கில் விளக்கி தெளிவுபடுத்துதல்

PSO 3: ஆய்வுமுறைகளைச் சுட்டிக்காட்டி அதன்வழி மாணவர்களை ஆய்வில் ஈடுபடச் செய்தல்

PSO 4:ஆய்வேட்டின் மொழிநடை தூயத்தமிழில் அமையும் முறையைத் தெளிவுபடுத்தி அதன்வழி ஆய்வில் இடம்பெறா மொழிநடையை விளக்குதல்

PSO 5: ஆய்வு பல்துறை ஆய்வாகவும் திறனாய்வு ஆய்வாகவும் அமையும் முறையை விளக்கி ஆய்வுக்கு உட்படுத்துதல்

➤ ENGLISH

Upon completion of the programme, the graduate will be able to

PSO 1: Create a synthesis of varied knowledge in English Language and Literature and to understand the various trends and movements in the current literary world.

PSO 2: Develop a range of general skills in evaluating information and communicating to the society independently with excellent persuasive writing skills.

PSO 3: Analyse and apply the critical theories along with other skills of language competency into diverse fields, which supports good language skills to specific skills like editing, content, creative writing, documentation etc.

PSO 4: Develop critical skills, allow free expression into innovative new genres and enhanced technical perspective to use language.

PSO 5: Integrated global perspectives will bring interconnectedness between cultures, philosophies and practices for better world view and human values.

➤ **ECONOMICS**

PSO 1: To critically review salient development in world economies and integrate it with the current scenario

PSO 2: Be competent enough to pursue doctoral studies and seek professional employment

PSO 3: To demonstrate their ability in empirical research by gathering data, formulating models and testing hypotheses using analytical tools

PSO 4: To delve into health theories in resolving pertinent issues

➤ **HISTORY**

On completion of the Specific programme, the student will be able to

PSO 1: understand the various aspects of research, historians and the different schools of thought.

PSO 2: gain knowledge and is ready to teach young minds.

PSO 3: adapt to the demands and are ready to be independent physically, mentally and financially.

PSO 4: to understand the diverse nature of research focussing to regional history.

PSO 5: acquire quantitative and qualitative knowledge on the subject and gain indepth knowledge in the regional history

➤ **ZOOLOGY**

PSO 1: Display higher order thinking in the knowledge domain and demonstrate professional skills

PSO 2: Contribute to the advancement and application of relevant knowledge by self-directed learning

PSO 3: Extend and integrate knowledge and skills to design and develop novel products and explore innovative solutions to national and international goals of development.

PSO 4: Exercise management skills and develop social interactions in a responsive, ethical and constructive way to meet global standards of excellence in all spheres of activity.

PSO 5: Strive for social and economic equity based on the need for gender parity and ecological sustainability.

➤ **CHEMISTRY**

On completion of the specific programme the student will be able to:

PSO 1: Apply knowledge and demonstrate professional skills in their own field of research

PSO 2: Demonstrate originality in the application of knowledge, conduction of experimental work and pursue quality research

PSO 3: Critically evaluate current research, research techniques, methodologies and design energy efficient & green experiments, scale up processes which have immense application to common man

PSO 4: Develop confidence and self-direction in tackling and solving problems, critical thinking and act independently in the planning and implementation of research

PSO 5: Use innovative and ICT enabled teaching methodology , communicate clearly and effectively, publish their research findings in peer reviewed journals and present research findings in international/ national forums

➤ **COMMERCE**

On completion of the specific programme the researcher will be able to:

PSO 1: Apply the knowledge of latest trends in Commerce relating to human resource management, marketing, banking, entrepreneurial development and finance.

PSO 2: Analyze and evaluate the complex problems in business with an understanding of the contextual and practical knowledge gained.

PSO 3: Prepare for a career in teaching and research.

PSO 4: Equipped for employment in Government and Private Research institutions **PSO 5:** Engage in lifelong learning by being equipped with a global outlook towards facing challenges of the dynamic world.

PSO 6: Acquire proficiency and analytical skills in areas of commerce along with hands on experience in organizations with respect to research project/work.

➤ **PLANT BIOLOGY & PLANT BIOTECHNOLOGY**

After completion of the course the students will be enable to

PSO 1: Acquire contextual knowledge in the process of developing new products and gain expertise of well define area of research in Plant Biology and Plant Biotechnology.

PSO 2: Apply innovative methodologies to carry out independent research leading to pursue Ph.D programme and empower student's personal and professional development.

PSO 3: Analyse the impact of new emerging areas of Plant Biology and Plant Biotechnology in the industrial environmental and social contexts.

PSO 4: Employ the scientific skills and analyse data using appropriate statistical methods and tools to design and execute the research projects.

PSO 5: Promote leadership and teaching skills to evolve as excellent professionals in academic institutes and in public sector units-CSIR, DBT, DST, DRDO laboratories and to contribute towards the growth of the country

➤ **MATHEMATICS**

On completion of the M.Phil Mathematics the student will be able

PSO 1: To develop research level thinking in the field of pure and applied mathematics.

PSO 2: To develop abstract mathematical thinking.

PSO 3: To assimilate mathematics independently and solve advanced mathematical problems.

PSO 4 : To write research articles in mathematics and to publish it in reputed journals.

PSO 5 : To develop and enhance teaching skills in mathematics.

➤ **CORPORATE SECRETARYSHIP**

The research program will produce graduates who will be able to

PSO 1: Acquire profound knowledge and understanding of advanced concepts in areas of finance, research and management thereby enhancing their cognitive and analytical skills

PSO 2: Foster potential researchers through application of experiential learning

PSO 3: Critical and quick decision making ability in all endeavours

PSO 4: Equip to face the global challenges through updated knowledge in research

PSO 5: Ability to recognise the need for research and undertake socially relevant projects

➤ **FOOD AND NUTRITION**

After completion of the specific programme, the M.Phil students will be able to

PSO 1: Acquire deep understanding principles and theories of research methodology, and undertake research and find effective teaching methods to enhance productive learning among students

PSO 2: Acquaint themselves on the different forms of education and apply analytical skills in undertaking research in the field of advanced nutrition

PSO 3: Develop critical thinking and analytical abilities to apply knowledge of advanced nutrition to solve malnourishment related problems and understand the best teaching methods to improve teacher student relationship

PSO 4: Recognize, understand and devise novel teaching learning methodologies in order to improve student participation and interaction

PSO 5: Evolve best student evaluation methods and engage in lifelong learning process and become professionally competent to take up careers in academics and health care.

PSO 6 Propose productive solutions to nutrition related problems by undertaking effective research and propose novel teaching methodologies to become efficient in teaching

➤ **PHYSICS**

On completion of M.Phil degree programme, the graduates will be able to:

PSO 1: Apply the in-depth conceptual understanding of the subject through literature survey and characterization techniques. To choose advanced level research in the country and abroad.

PSO 2: Demonstrate innovation in the application of knowledge, in solving problems, planning and implementation of research and critical evaluation.

PSO 3: Apply the practical understanding of interpreting research and enquiry as knowledge, enabling them to function effectively in multidisciplinary academic environments.

PSO 4: Evolve as excellent professionals in universities and scientific establishments like BARC/ISRO/DRDO/CSIR/TIFR laboratories and contribute towards scientific growth.

PSO 5: Analyze the impact of new emerging areas of physics in the global, economic, environmental and societal consideration.

PSO 6: Develop inventive methodologies to tackle the issues identified and contribute to the development of scientific knowledge and intellectual property

➤ **COMPUTER SCIENCE**

After completing the course, the research scholars will be able to,

PSO 1: Analyze the impact of new emerging areas of computer science in the global, economic, environmental and societal context.

PSO 2: Acquire in-depth knowledge in the process of developing new ideas as well as gain expertise in the defined areas of research in computer science.

PSO 3: Develop innovative methodologies to challenging issues identified and contributing to the development of technological knowledge and intellectual property.

PSO 4: Ability to apply mathematical knowledge to solve complex task, model real world problems using appropriate innovative technologies.

PSO 5: Facilitate knowledge in various domains to identify research gaps and hence to provide solution to new ideas and innovations.