PROGRAM STRUCTURE & CURRICULUM

Curriculum Structure:

❖ PHD101: RESEARCH METHODOLOGY

COURSE OUTCOMES

After the course, the research scholar will be able to:

- a. Understand research terminology
- b. Describe quantitative, qualitative, and mixed methods of approach to research
- c. Identify the components of the research process from the literature review for the submission of the research report.
- d. Critically analyze the published research.
- e. Develop awareness of the ethical principles, and challenges involved in research processes.

❖ PHD201: RESEARCH AND PUBLICATION ETHICS

COURSE OUTCOMES

After the course, the research scholar will be able to:

- a. Carry out research ethically and publish papers without compromising on quality.
- b. Identify predatory journals and avoid publishing in the same.
- c. Learn the importance of open access publications and advantage of publishing in
- d. these platforms.
- e. Equip themselves with knowledge on how to use software tools for checking plagiarism.
- f. Explore databases, appraise authors via citation and produce quality research work ethically.

❖ PHD210BM - CONTEMPORARY ASPECTS OF COMMERCE

COURSE OUTCOMES

After the course, the research scholar will be able to:

- a. Understand the policy reforms and regulations.
- b. Analyze the financial statements and understand the Indian capital market, its operations, instruments, and regulations.
- c. Understand contemporary e-commerce concepts and terminology, and the processes and management decisions that are involved in launching, operating, and managing business activity on the World Wide Web.
- d. Understand the recent developments in the banking and insurance sectors.
- e. Know the application of the latest technology adopted in banking to market thei products/services.



4.00

❖ PHD201BE - TRENDS IN INDIAN ECONOMY

COURSE OUTCOMES

After the course, the research scholar will be able to:

- a. Understand various issues like growth of national income, population, poverty, human resources and economic stability in the Indian economy.
- b. Understand the contribution of agriculture, industry and service sector to the overall development of the Indian economy.
- c. Understand the budgetary exercises in bringing fiscal discipline in the Indian economy.
- d. Understand the overall growth of foreign trade and its contribution to the Indian economy in the changing international order.

❖ PHD204BT - DATA SCIENCE AND BIG DATA ANALYTICS

COURSE OUTCOMES

After the course, the research scholar will be able to:

- a. Explain basic concepts in data science and Big Data analytics.
- b. Apply principles of Data Science to the analysis of business problems.
- c. Solve analytics problems using appropriate technologies and tools.
- d. Explain various applications across multiple domains.
- e. Identify gaps and issues with current approaches which will enable identification of potential research areas.

PHD205BT – WIRELESS SENSOR NETWORKS

COURSE OUTCOMES

After the course, the research scholar will be able to:

- a. Get an overview of the various network level protocols.
- b. Understand what research problems sensor networks pose in disciplines such as signal processing, wireless communications and even control systems.
- c. To get a broad understanding of the technologies and applications for the emerging and the exciting domain of wireless sensor networks.

❖ PHD206BT – DIGITAL SIGNAL PROCESSING

COURSE OUTCOMES

After the course, the research scholar will be able to:

- a. Understand the mathematical concepts of signal representation and transformations with their analysis.
- b. Develop the ability to generate proper solutions to signal processing problems.
- c. Understand Digital Signal Processing applications and implementation of signal processing to various applications.
- d. Understand the mathematical concepts of signal representation and transformations with their analysis.
- e. Develop the ability to generate proper solutions to signal processing problems.



6.00

❖ PHD207BT - COMPUTER SCIENCE RESEARCH FUNDAMENTALS

COURSE OUTCOMES

After this course, the student will be able to:

- a. Formulate solutions to computing problems
- b. Work effectively in teams to design and implement solutions to computational problems
- c. Apply sound principles to the synthesis and analysis of computer systems
- d. Design and implement effective solutions to computing problems
- e. Design and implement software systems that meet specified design and performance requirements

❖ PHD208BT - ENCRYPTION ALGORITHMS

COURSE OUTCOMES

After the course, the research scholar will be able to:

- a. Implement basic security algorithms required by any computing system.
- b. Formulate research problems in the computer security field.
- c. Evaluate security mechanisms using rigorous approaches, including theoretical derivation, modeling, and simulations.
- d. Analyze the vulnerabilities in a computing system and design a security solution.
- e. Analyze the possible security attacks in complex real time systems and their effective countermeasures.
- f. Identify the security issues in the network and resolve it.

❖ PHD209BT DIGITAL IMAGE PROCESSING

COURSE OUTCOMES

After this course, the student will be able to:

- a. Discuss digital image fundamentals.
- b. Apply image enhancement and restoration techniques.
- c. Use image compression and segmentation Techniques.
- d. Represent features of images.

❖ PHD202BL – APPROACHES IN LEGAL RESEARCH

COURSE OUTCOMES

After the course, the research scholar will be able to:

- a. Be conversant with basic principles of law.
- b. Effectively reason and present critical analysis on current legal issues.
- c. Better comprehend the inherent interdisciplinary character of law.





❖ PHD204BH - CONTEMPORARY ENGLISH LITERATURE

COURSE OUTCOMES

After the course, the research scholar will be able to:

- a. Be acquainted with major trends and writers in English literature through detailed study of specific literary works.
- b. Critically analyze and evaluate literary works in the context of their intellectual, cultural, socio-political and literary background.
- c. Be acquainted with major genres in British, American and Indian literature.
- d. Write researched, well-developed papers concerning works of literature using various critical approaches.

❖ PHD201BD - TRENDS AND CONTEMPORARY ISSUES IN EDUCATION

COURSE OUTCOMES

After the course, the research scholar will be able to:

- a. Examine the social implications of the recent trends in Education
- b. Identify different issues pertaining to diversity as well as their impact on student learning
- c. State the nature and scope of the factors affecting the quality of schooling
- d. Explain how different kinds of schooling affect the quality of schooling
- e) Analyze the changing role of the teacher in contemporary society

PHD201BI - RECENT DEVELOPMENTS IN LIBRARY AND INFORMATION SCIENCE

COURSE OUTCOMES

After the course, the research scholar will be able to:

- a. Develop leadership and managerial skills to handle libraries more effectively.
- b. Develop skills to perform library operations and to evaluate library and information center's performance.
- c. Use modern library management techniques to achieve the organizational effectiveness and efficiency



