Sadakathullah Appa College (Autonomous)

PG & Research Department of Computer Science

M.Phil Computer Science

Programme Outcome

PO No	A Postgraduate with a M.Phil in Computer Science will have the ability to:
PO1	Motivate themselves and develop an interest in planning and implementation of research
PO2	Practice the teaching-learning process by being the proponent in classroom and laboratory experience
PO3	Apply the scientific context to develop innovative ideas, products and methods for the benefits of biosphere
PO4	Recognize and integrate life-long learning skills to become pro-active in personal and professional live
PO5	Opt for careers demanding writing and communicative skills locally and globally

Programme Specific Outcome

PSO No	A Postgraduate with a M.Phil Computer Science will have the ability to :	PO Mapped
PSO 1	Write and communicate technical concepts and results in form of conference papers, journal papers and oral presentations.	PO1
PSO 2	Understand the techniques and extensive knowledge of the literature, applicable to the selected research areas.	PO2
PSO 3	Identify the problems to create and interpret knowledge in their chosen area.	PO3
PSO 4	Apply the current research techniques and methodologies in various domains.	PO4
PSO 5	Inculcate self-direction and originality in tackling and problems solving ability, social moral and ethical values.	PO5

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COURSE OUTCOMES

I SEMESTER

Research and Teaching Methodology

CO. No.	Upon completion of this course students will be able to :	PSO Mapped	Cognitive Level
CO1	Understand research environment, consolidate the outcome of research and write technical papers.	PSO2	Understanding
CO2	Analyze the different techniques that can be used for the research.	PSO3	Analyzing
CO3	Propose a research study design an experiment and apply appropriate methodologies.	PSO4	Applying
CO4	Prepare a project proposal and apply for grants to funding agencies.	PSO4	Applying
CO5	Develop advanced research in specialized areas and transmit their knowledge to the society.	PSO5	Creating

Machine Learning Techniques

CO. No.	Upon completion of this course students will be able to :	PSO Mapped	Cognitive Level
CO1	Understand the neural network concepts and terminologies.	PSO2	Understanding
CO2	Recognize the characteristics of machine learning that make it useful to real-world problems.	PSO1	Remembering
CO3	Characterize machine learning algorithms as supervised, semi-supervised, and unsupervised.	PSO3	Analyzing
CO4	Design and implement an HMM for a sequence model type of application.	PSO4,5	Applying, Creating
CO5	Use machine learning toolboxes effectively.	PSO4	Applying

Virtual Reality

CO. No.	Upon completion of this course students will be able to :	PSO Mapped	Cognitive Level
CO1	Understand Virtual Reality and Virtual Environment.	PSO2	Understanding
CO2	Analyze the basic concepts of Virtual Reality.	PSO3	Analyzing
CO3	Develop the Virtual Reality application in different areas and disciplines.	PSO5	Creating
CO4	Design of various Modeling concepts using VR.	PSO5	Creating
CO5	Apply the concept of Virtual Reality with Toolkits.	PSO4	Applying

Digital Image Processing

CO. No.	Upon completion of this course students will be able to :	PSO Mapped	Cognitive Level
CO1	Understand basic image processing algorithm using MATLAB tools.	PSO2	Understanding
CO2	Design an application that incorporates different concepts of image processing.	PSO5	Creating
CO3	Apply and explore new technologies in the areas of image enhancement restoration, segmentation, compression, and wavelet processing and image morphology.	PSO4	Applying
CO4	Analyze images in the frequency domain using various transforms.	PSO3	Analyzing
C05	Interpret image segmentation and representation techniques.	PSO2	Understanding

Deep Learning

CO. No.	Upon completion of this course students will be able to :	PSO Mapped	Cognitive Level
CO1	Understand the fundamental principles and approaches of deep learning.	PSO2	Understanding
CO2	Analyze the deep learning concepts with Machine Learning approaches.	PSO3	Analyzing
CO3	Discuss the various deep learning techniques and its applications.	PSO2	Understanding
CO4	Design and develop the algorithm for deep learning applications.	PSO5	Creating
CO5	Implement deep learning algorithms and solve real-world problems.	PSO4	Applying

Big Data Analytics

CO. No.	Upon completion of this course students will be able to :	PSO Mapped	Cognitive Level
CO1	Understand the various search methods and visualization techniques.	PSO2	Understanding
CO2	Analyze the big data using intelligent techniques.	PSO3	Analyzing
CO3	Apply analytics on real time streaming data.	PSO4	Applying
CO4	Create business models and apply software tools for big data analytics.	PSO5,4	Creating Applying
CO5	Analyze Hadoop components and their uses for big data analytics.	PSO3	Analyzing