DEPARTMENT OF ARTIFICIAL INTELLIGENCE

PROGRAMME OUTCOMES AND COURSE OUTCOMES OF UNDER GRADUATE

(2024 ONWARDS)

NAME OF THE PROGRAMME: BACHELOR OF SCIENCE ARTIFICIAL INTELLIGENCE – PROGRAMME OUTCOME	
PO1	**Disciplinary knowledge:** Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study.
PO2	**Communication Skills:** Ability to express thought effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write an analytically, and present complex in formation in a clear and concise manner to different groups.
PO3	**Critical thinking:** Capability to apply analytic thought to a body of knowledge; analyses and evaluate evidence, arguments, claims, belief basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development.
PO4	**Problem solving:** Capacity to extra polite from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.
PO5	**Analytical reasoning**: Ability to evaluate their liability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples and addressing opposing view points.
PO6	**Research-related skills:** A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesizing and articulating; Ability to recognize cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyze, interpret and draw conclusions from data, establish hypotheses, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation.
PO7	**Cooperation/Teamwork:** Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group, and act together as a group of a common cause and work efficiently as a member of a team.
PO8	**Scientific reasoning**: Ability to analyze, interpret and draw conclusions from quantitative/qualitative data; and critically evaluate ideas, evidence, and experiences from an open-minded and reasoned perspective.
PO9	**Reflective thinking**: Critical sensibility to lived experiences, with self-awareness and reflexivity of both self and society.
PO10	**Information/digital literacy:** Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data.

PO11	**Self-directed learning**: Ability to work independently, identify appropriate resources required for a project, and manage a project through to completion.
PO12	**Multicultural competence:** Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability toeffectivelyengageinamulticulturalsocietyandinteractrespectfullywithdiversegroups.
PO13	**Moral and ethical awareness/reasoning:** Ability to embrace moral/ethical values in conducting one's life, formulate apposition/argument about ethical issue from multiple perspectives, and use ethical practices in all work. Capable of demonstrating the ability to identify ethical issues related to one's work, avoid unethical behavior such as fabrication, falsification or misrepresentation of data or committing plagiarism, not adhering to intellectual property rights; appreciating environmental and sustainability issues; and adopting objective, unbiased and truthful actions in all aspects of work.
PO14	**Leadership readiness/qualities:** Capability form aping out that asks of a team or an organization, and setting direction, formulating an inspiring vision, building a team who can help achieve the vision, motivating and inspiring team members to engage with that vision, and using management skills to guide people to the right destination, in as efficient way.
PO15	**Lifelong learning:** Ability to acquire knowledge and skills, including learning how to learn, that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of workplace through knowledge/skill development/reskilling.

NAME OF THE PROGRAMME: B.Sc ARTIFICIAL INTELLIGENCE – COURSE OUTCOMES	
SEMESTER I	
CC-1 **Programming for Problem Solving**	1. The student can understand the fundamentals of computer and program development process. 2. They can prepare innovative solution for the problem using branching and looping statements. 3. The student can decompose a problem into functions and synthesize a complete program using divide and conquer approach. 4. The Student will be able to formulate algorithms and programs using arrays, pointers and structures 5. The Student will be able to create a new application software to solve real world problems.
CC-2 **Practical-Problem Solving using C Lab**	1. Translate given algorithms to a working and correct program 2. Identify and correct logical errors encountered at run time

	3. Create iterative as well as recursive programs. 4. Represent data in arrays, strings and structures and manipulate them through a program. 5. Declare pointers of different types and use them in defining self-referential structures.
EC – 1 Allied **Statistical Methods And Their Applications -1**	1. Understand the statistical methods measures of location 2. Understand the statistical methods measures of dispersion 3. Apply the statistical methods of dispersion and location 4. Understand the concept of Skewness. 5. Understand the relationship between variables and fore casting the future values
Skill Enhancement Course-1 (SEC-1) **Office Automation**	1. Possess the knowledge on the basics of computers and its components 2. Gain knowledge in Creating Documents, spreadsheets and presentations. 3. Demonstrate an understanding of different automation tools 4. Learn the concepts of Database and implement the Query in Database. 5. Utilize the automation tools for documentation, calculation and presentation purpose.
Skill Enhancement Course-2 (SEC-2) **Internet And Web Development**	1. The Students will able to understand the concepts basic of internet. 2. The Students will develop an understanding of internet technology and online threats. 3. To introduce the fundamentals of HTML, and the principles of web design. 4. The students will able to apply CSS rules to HTML elements such as color, size, font, spacing, and positioning. 5. The students will be able to construct basic web page design using HTML & CSS.
Foundation Course (FC) **Digital Computer Fundamentals**	1. Identify the logic gates and their functionality 2. Perform number conversions from one system to another system 3. Design basic electronic circuits (combinational circuits) 4. Perform a comparative analysis of the components of different memory units 5. Perform number conversions