



**SHARDA**  
UNIVERSITY  
*Beyond Boundaries*

# SHARDA SCHOOL OF ALLIED HEALTH SCIENCES

Department of Allied Health Sciences



## COURSE

AI ESSENTIALS: BUILDING A SMARTER FUTURE

NV11001

ADD  
CHURE

2024-25

## SHARDA UNIVERSITY

The School of Allied Health Sciences plays an essential role in the modern health environment. The school is committed to providing the highest quality learning environment to its students by way of classroom teaching, laboratory training, and clinical exposure at its associated thousand bedded hospital. This is further clubbed with discussions, seminars, and journal clubs for the latest advances in the respective fields and community connections by way of guided tours and also the externships to other prestigious institutions. Highly trained professionals from the school, after successful completion of the program, contribute to high-quality healthcare services in the country and abroad, by practicing and applying the knowledge acquired. Their hands-on experience with real-world settings or the patients equips them with the latest knowledge and prepares them to deal with the challenges of the healthcare industry.

### VALUE ADDED COURSES (VAC)

The value-added education courses aim to provide additional learner-centric graded skill-oriented technical training, with the primary objective of improving the employability skills of students.

### PURPOSE OF VALUE-ADDED COURSES

- VACs are relevant academic methods in order to fill the gaps in students' knowledge and add a competitive edge to their job prospects. A well-defined system of offering VACs in the courses makes them extremely useful for improving the employability quotient of students by building a range of competencies.
- VAC can also serve as top-up courses to make students industry-ready by exposing them to the current technology and practices than those covered in their formal degree courses.

### VALUE ADDED COURSES OFFERED

#### **(1) AI Essentials: Building a Smarter Future**

The objective of this course is about knowing about machine learning, natural language processing, and computer vision, participants will gain practical insights into how AI is transforming industries and shaping the future.

#### **Schedule:**

The Course content should include ways and means of stimulating the thought processes of the candidate and ensure that the candidate can critically acquire new information from books, journals, lectures, seminars, and discussions.

The candidate has to attend three classes per week to complete 30 hours.

At the end of the course, a certificate will be provided to each candidate.

# MODULE

<b>School:</b> Sharda School of Allied Health Sciences	<b>Academic Year:</b> 2024-25		
	<b>Semester:</b> Even Semester		
Course Code	<b>NV11001</b>		
Course Title	<b>AI Essentials: Building a Smarter Future</b>		
Contact Hours	<b>(30 Hours)</b>		
Course Type	<b>Value added course</b>		
Course Outcomes	<p>On successful completion of this course, students will be able:</p> <ul style="list-style-type: none"> <li>• <b>Understand the fundamental concepts and types of artificial intelligence.</b></li> <li>• <b>To identify key AI applications in various industries and their societal impact</b></li> <li>• <b>Explore machine learning techniques and their role in data-driven decision-making</b></li> <li>• <b>Gain practical knowledge of natural language processing and computer vision.</b></li> <li>• <b>Recognize ethical challenges in AI, including bias, privacy, and transparency.</b></li> <li>• <b>Develop the ability to apply AI tools and platforms to solve basic real-world problems.</b></li> </ul>		
<b>Syllabus</b>			
<b>Course Modules</b>	<b>Content</b>	<b>Hours</b>	<b>Schedule</b>
Module 1	Introduction to Artificial Intelligence, to understand about Real-World Applications of AI, and Basic AI Terminology	<b>6</b>	<b>1<sup>st</sup> and 2<sup>nd</sup> week</b>
Module 2	To understand Machine Learning., and types of Machine Learning, what are different Machine Learning Process	<b>6</b>	<b>3<sup>rd</sup> and 4<sup>th</sup> week</b>
Module 3	Introduction to AI Tools and Platforms, AI in the Cloud, AI for Beginners: No-Code Platforms.	<b>6</b>	<b>5<sup>th</sup> and 6<sup>th</sup> week</b>
Module 4	To know about Natural Language Processing (NLP) and Computer Vision, Applications of NLP and Computer Vision	<b>6</b>	<b>7<sup>th</sup> and 8<sup>th</sup> week</b>
Module 5	To know about Ethical AI and Future Trends, AI Regulation and Policy, to know about the Future of AI.	<b>6</b>	<b>9<sup>th</sup> and 10<sup>th</sup> week</b>
Text book/s	<p>Artificial Intelligence – A modern Approach - <i>By Stuart Russell &amp; Peter Norvig.</i></p> <p>Machine Learning for Dummies -- <i>By John Paul Mueller and Luca Massaron</i></p>		
Mode of examination	(Practical /Jury /Viva /Seminar /Hands-on training /Industrial training /Field visit /Workshop.		