

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Computer Science
Academic Year 2024-2025

Value Added Course

Name of the Course : Artificial Intelligence

Department : Computer Science

Course Implementation Year : 2024-25

Coordinator Name and Contact No. : Miss. Rajvardhan R. B. (9370798074)

Duration : 1 Month

Course Fee : Free

Eligibility : 12th Pass

Intake Capacity : 33


Head

Department of Computer Science

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Computer Science
Academic Year 2024-2025

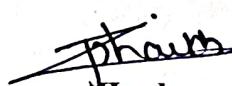
Notice

Date: 06/12/2024

All the students are informed that Artificial Intelligence (AI) Course going to start in our college under "Value Added Course". The students who want to take admission for the said course should submit their names to Miss. Rajvardhan R. B. (9370798074) before 10/12/2024.



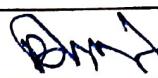
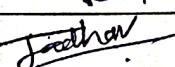
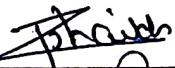
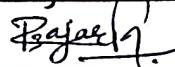
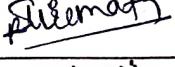
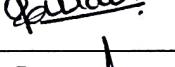
Course Coordinator



Head
Department of Computer Science

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Computer Science

B.O.S. Committee

Sr. No.	Name	Institution	Position	Signature
1	Mr. Chougule P.S.	R.C.Shahu College, Kolhapur	Chairman	
2	Mr. Jadhav M.A.	The New College, Kolhapur	Expert	
2	Smt. Kannade M.K.	R.C.Shahu College, Kolhapur	Member	
3	Miss. Shaikh Z.J.	R.C.Shahu College, Kolhapur	Member	
4	Miss. Rajvardhan R. B.	R.C.Shahu College, Kolhapur	Member	
5	Miss. Salokhe P.P.	R.C.Shahu College, Kolhapur	Member	
6	Miss. Hiremath S.R.	R.C.Shahu College, Kolhapur	Member	
7	Miss. Ghevade P. A.	R.C.Shahu College, Kolhapur	Member	
8.	Miss. Ghorpade S. S.	R.C.Shahu College, Kolhapur	Member	


Course Coordinator


Head
Department of Computer Science

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Computer Science

Meeting Record

Date: 06/12/2024

All the committee members of Value Added Course are informed that be attend for the meeting on Monday, 09/12/2024 at 11.30 a.m. in Computer Lab regarding to Value Added Course.

Subjects before the Meeting are as follows.

1. To start the Value Added Course
2. To Design the syllabus of course
3. Any subject that arise in the meeting with the permission of Principal.

1] Shaikh Z - J.	<u>Shaikh</u>
2] Rajvardhan R.B.	<u>Rajvardhan</u>
3] Salokhe P. P.	<u>Salokhe</u>
4] Hiremath S.R.	<u>Hiremath</u>
5] Gherade P.A.	<u>Gherade</u>
6] Ghorpade S. S.	<u>Ghorpade</u>

Rajvardhan
Course Coordinator

Shaikh
Head
Department of Computer Science

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Computer Science

Meeting Record

Date: 04/01/2025

All the committee members of Value Added Course are informed that be attend for the meeting on Wednesday, 08/01/2025 at 11.30 a.m. in Computer Lab regarding to Value Added Course.

Subjects before the Meeting are as follows.

1. To conduct the exam of Value Added Course
2. Distribution of certificates.
3. Any subject that arise in the meeting with the permission of Principal.

- 1] Shaikh Z. J. Z. J. Shaikh
- 2] Rajvardhan R. B. Rajvardhan
- 3] Salokhe P. P. Salokhe
- 4] Hiremath S. R. Hiremath
- 5] Gherade P. A. Gherade
- 6] Ghorpade S. S. Ghorpade

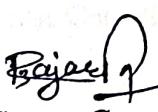
Rajvardhan
Course Coordinator

Z. J. Shaikh
Head
Department of Computer Science

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Computer Science

Objectives

- Problem-Solving and Decision Making
- Natural Language Processing (NLP)
- Machine Learning and Deep Learning
- Robotics and Automation.
- Enhancing Healthcare and Medicine
- Fostering Creativity and Innovation


Course Coordinator


Head

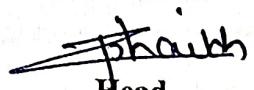
Department of Computer Science

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Department of Computer Science

Learning Outcomes

- Understand the informed and uninformed problem types and apply search strategies to solve them.
- Design and evaluate intelligent expert models for perception and prediction from intelligent environment.
- Formulate valid solutions for problems involving uncertain inputs or outcomes by using decision making techniques.
- Demonstrate and enrich knowledge to select and apply AI tools to synthesize information and develop models within constraints of application area.
- Examine the issues involved in knowledge bases, reasoning systems and planning.


Course Coordinator


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Department of Computer Science

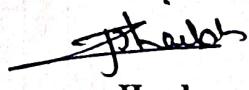
Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Computer Science
Academic Year 2024-2025

Artificial Intelligence

Time Table

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
3.00 pm- 5.00 pm	Batch 1	Batch 1	Batch 1	Batch 1	Batch 1	Batch 1


Course Coordinator


Head
Department of Computer Science

**Rayat Shikshan Sanstha's
Rajarshi Chitrabhatti Shikshan College, Kolhapur
Department of Computer Science
Academic Year 2024-2025**

Attendance Sheet

Course: Artificial Intelligence Course

Course: Artificial Intelligence Course

Months:

19	Kunal Nasayan Grade	9/01	Neelam Neelam	Neelam										
20	Sutaj Mahesh Hundare	9/02	Neelam Neelam	Neelam										
21	Nikhil Uttameshwar Bood	9/03	Neelam Neelam	Neelam										
22	NILESH SHANKAR CHAVAN	9/04	Neelam Neelam	Neelam										
23	SWAPNIL GANPATI JAGTAP	9/05	Neelam Neelam	Neelam										
24	Aniket Dnyaneshwar Awale Grade	9/06	Neelam Neelam	Neelam										
25	Nirmiti Nishtha Wainagle	9/07	Neelam Neelam	Neelam										
26	Pragya Gajanan Kumbhare	9/08	Neelam Neelam	Neelam										
27	Siddhant Shrivaghav Patil	9/09	Neelam Neelam	Neelam										
28	Nishwanth Ragunath Tambar	9/10	Neelam Neelam	Neelam										
29	Kartuna Suresh Shingare	9/11	Neelam Neelam	Neelam										
30	Kamlesh Krishnaji Sonwane	9/12	Neelam Neelam	Neelam										
31	Aveekhut Runtaj Bujade	9/13	Neelam Neelam	Neelam										
32	Potil Prasad Narkha	9/14	Neelam Neelam	Neelam										
33	Debjyoti Ranade Patil	9/15	Neelam Neelam	Neelam										


Head

Rayat Shikshan Sanstha's Rajivshi Chhatrapati Shahu College, Kolhapur

Department of Computer Science

Academic Year 2024-2025

Attendance Sheet

Course: Artificial Intelligence Course

Course: Artificial Intelligence Course

Months:

~~Head~~

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Department of Computer Science
Kurukshetra Chh. Shahu College, Kurukshetra

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Computer Science
Academic Year 2024-2025

Syllabus

- **Module-1: Foundations of AI & ML**

Python for AI & ML - Basics, Jupyter Notebook, functions, packages, libraries, data structures, arrays, vectors, and data frames

Applied Statistics - Descriptive statistics, inferential statistics, probability, and hypothesis testing

- **Module-2: Artificial Intelligence**

Introduction to Neural Networks and Deep Learning - Gradient Descent, Perceptron, Batch Normalization, Activation and Loss Functions, hyperparameter tuning, Tensor Flow, and Keras

Computer Vision - Convolutional Neural Networks (CNN), transfer learning, object detection, and segmentation

Natural Language Processing - Preprocessing text data, Bag of Words Model, TF-IDF, Word2Vec, GLOVE, POS Tagging, Named Entity Recognition, Sequential Models, and Recurrent Neural networks (RNNs)

Shrikant

Head

Department of Computer Science
Rajarshi Chh. Shahu College, Kolhapur

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Computer Science
Academic Year 2024-2025

Subject: Artificial Intelligence

Date: 20/01/2025

20 Marks

Q.1) Choose the correct answer.

- 1) Which of the following is not a type of Artificial Intelligence agent?
(A) Learning AI agent (B) Goal-based AI agent
(C) Simple reflex AI agent (D) Unity-based AI agent
- 2) Who is the inventor of Artificial Intelligence?
(A) Geoffrey Hinton (B) Andrew Ng (C) John McCarthy (D) Jürgen Schmidhuber
- 3) Which of the following is a component of Artificial Intelligence?
(A) Learning (B) Training (C) Designing (D) Puzzling
- 4) Which of the following is not the commonly used programming language for AI?
(A) Perl (B) Java (C) PROLOG (D) LISP
- 5) _____ number of informed search method are there in Artificial Intelligence.
(A) 4 (B) 3 (C) 2 (D) 1
- 6) Which of the following is not an application of artificial intelligence?
(A) Face recognition system (B) Chatbots (C) LIDAR (D) DBMS
- 7) Which of the following is an example of artificial intelligent agent/agents?
(A) Autonomous Spacecraft (B) Human (C) Robot (D) All of the mentioned
- 8) Which of the following is the branch of Artificial Intelligence?
(A) Machine Learning (B) Cyber forensics (C) Full-Stack Developer (D) Network Design Introduction
- 9) Among the given options, which search algorithm requires less memory?
(A) Optimal Search (B) Depth First Search (C) Breadth-First Search (D) Linear Search
- 10) Machine learning is a subset of _____
(A) Data Learning (B) Deep Learning (C) Artificial Intelligence (D) None of the above

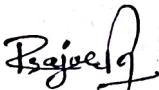
Q.2) What are the functions and packages of python used in AI & ML? 10 Marks

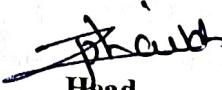
Q.3) What is Deep Learning? 10 Marks

Q.4) What is Natural Language Processing in AI? 10 Mark

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahi College, Kolhapur
Department of Computer Science
Academic Year 2024-2025
Result

Sr. No.	Name	Total Marks	Obt. Marks	Result
1	Shubham Sudhakar Dinde	50	45	Pass
2	Shivtej Sanjay Suryavanshi	50	43	Pass
3	Ritesh Rajeev Jagtap	50	45	Pass
4	Maruti Bhimrao Nimbalkar	50	43	Pass
5	Bhagvāt Nivās Shinde	50	40	Pass
6	Sahil Prakash Katkar	50	42	Pass
7	Prathamesh Laxman Patil	50	40	Pass
8	Parikshit Prakash Naik	50	45	Pass
9	Vikas Balu Rathod	50	43	Pass
10	Rohit Anand Patil	50	40	Pass
11	Mourvika Vinayak Maralkar	50	43	Pass
12	Sanika Bajirao More	50	45	Pass
13	Sharvari Shahaji Mohite	50	43	Pass
14	Divej Dhondiram Shinde	50	43	Pass
15	Yash Mahendra Jadhav	50	43	Pass
16	Deepak Dnyandev Parse	50	40	Pass
17	Sachin Balu Kalel	50	45	Pass
18	Rohan Babasoheb Karande	50	45	Pass
19	Kunal Narayan Gawade	50	43	Pass
20	Suraj Mahesh Hundare	50	45	Pass
21	Nikhil Uttarashwar Baad	50	40	Pass
22	Hitesh Shankar Chauhan	50	40	Pass
23	Swapnil Ganpati Jagtap	50	45	Pass
24	Aniket Dnyaneshvar Awdan	50	43	Pass
25	Nivruti Vishnu Waingade	50	43	Pass
26	Prajyot Gajanan Kumbhar	50	45	Pass
27	Sidharth Shatraghna Patil	50	40	Pass
28	Vishwanath Ragunath Tambat	50	43	Pass
29	Karuna Suresh Shingare	50	45	Pass
30	Kamlesh Krishnat Sonule	50	45	Pass
31	Avadhut Yuvraj Gugade	50	40	Pass
32	Prasad Natha Patil	50	45	Pass
33	Adityaraj Aanadarao Patil	50	42	Pass


Course Coordinator


Head

Department of Computer Science

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Computer Science
Academic Year 2024-2025

Report on
"Artificial Intelligence"

Date: 24/01/2025

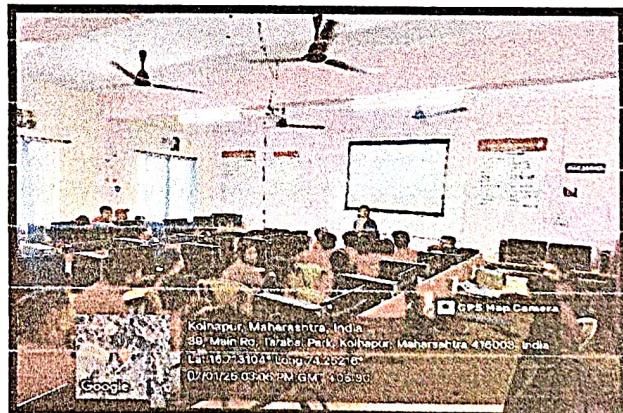
The Value Added Course on "Artificial Intelligence" has been started in the academic year 2024-25 under the guidance of Principal I/C Prof. Dr. D. R. Bhosale . The course has conducted during 16th December 2024 to 20th January 2025.

All the committee members are help to design the syllabus of the course. The course helps to develop the scientific approach in AI between the students. The exam was conducted. After the exam, papers are checked and result is declared. The certificates were given to each student by Principal Sir.

Outcomes:

To develop the AI skills that employers are seeking, in machine learning, development, robotic process automation, and cognitive computing.

Beneficiaries: 33



Course Coordinator

Principal
R.C. Shahu College, Kolhapur

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College, Kolhapur
Department of Computer Science
Academic Year 2024-2025

Utilization

1. **Smartphone Assistants:** Siri, Google Assistant, and Alexa are AI-powered personal assistants that help us set reminders, answer questions, and control smart home devices, making our lives more convenient. **AI Methods:** Natural Language Processing (NLP) and Machine Learning. **Companies:** Apple (Siri), Google (Google Assistant), Amazon (Alexa).
2. **Email Filters:** Ever wondered how your email service filters out spam or categorizes emails? AI algorithms are at work, learning from the emails you receive to help streamline your inbox. **AI Methods:** Text Classification and Pattern Recognition. **Companies:** Google (Gmail), Microsoft (Outlook), Yahoo.
3. **Online Shopping Recommendations:** Online retailers use AI to analyze your browsing and purchase history, offering personalized product recommendations, and making your shopping experience more tailored to your preferences. **AI Methods:** Collaborative Filtering and Deep Learning. **Companies:** Amazon, eBay, Alibaba Group.
4. **Social Media:** AI helps curate your feed, recognizing and suggesting friends or accounts to follow, and even flagging inappropriate content. **AI Methods:** Image and Speech Recognition, NLP, and Predictive Analytics. **Companies:** Facebook, Instagram, Twitter.
5. **Streaming Services:** Platforms like Netflix and Spotify use AI to analyze your viewing or listening habits, suggesting new shows or songs you might enjoy. **AI Methods:** Recommendation Systems using Machine Learning. **Companies:** Netflix, Spotify, Hulu.
6. **Smart Home Devices:** Thermostats like Nest learn your preferred temperature settings over time, optimizing your home's heating or cooling for comfort and energy efficiency. **AI Methods:** Predictive Analysis and Machine Learning. **Companies:** Google (Nest), Amazon (Echo), Apple (HomeKit).

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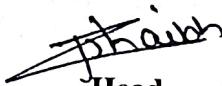
Nature of Exam Question Paper

Subject-Artificial Intelligence

Paper Shall Carry 50 marks

Q.1) Choose the correct answer.	20 Marks
Q.2) Answer the question.	10 Marks
Q.3) Answer the question.	10 Marks
Q.4) Answer the question.	10 Marks


Course Coordinator


Head

Department of Computer Science