

**Shri Shivaji Education Society's  
Board for Higher Education Vidyanagar Karad.**



**YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD**

**DEPARTMENT OF PHYSICS**

**SHORT TERM COURSE**

**Artificial Intelligence**

**2023-24**

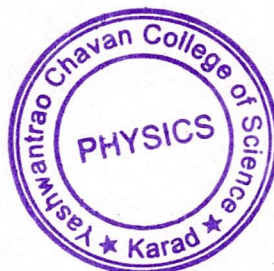
**Index**

**Total Students: 20**

**Class: B.Sc. II**

**Duration: 03 Months**

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Hon. Yashwantrao Chavansaheb  
Founder

|| Be One with the downtrodden and the underprivileged ||  
Shri Shivaji Education Society Karad, Board For Higher Education's



Hon. P. D. Patilsaheb  
President up to 17<sup>th</sup> September 2008

# YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

Vidyanagar, KARAD - 415 124 Dist. Satara ( Maharashtra)

02164 - 271356, 271357 e-mail : prinyccsk@gmail.com website : www.yccskarad.com

UDISE Code - 27310207715 Index No. - J 21.02.002



Reaccredited B++ Level by NAAC, Bangalore

AN ISO 9001-2015 CERTIFIED COLLEGE REG. NO. : RQ91/5237

**Dr. Suryakant Babu Kengar**  
Principal

**Hon. Shamrao Alias Balasaheb Pandurang Patil**

President,  
Shri Shivaji Education Society's, Board for Higher Education, Karad

**Hon. Altafhusen Nasiruddin Mulla**

General Secretary,  
Shri Shivaji Education Society's, Board for Higher Education, Karad

CCF-30

## Department of Physics

### Short term course on "Artificial Intelligence"

Year 2023-24

### Board of Studies (BOS)

Short term Course on "Artificial Intelligence" is going to start in the department of Physics, Yashwantrao Chavan College of Science, Karad. Following committee is constituted for syllabus framing of the said course

### Board of Studies (BOS) members

1.	Principal Dr. S. B. Kengar	Chairman	
2.	Dr. G. G. Potdar	IQAC Coordinator	
3.	Dr. G. A. Kadam	Head of Department	
4.	Ms. P. K. Madane	Course Coordinator	



## Course Title: **Introduction to Artificial Intelligence**

Course Duration: **30 hours**

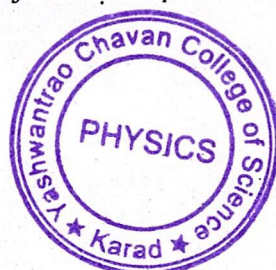
CCF-30

**Course Description:** This 30-hour course on Artificial Intelligence (AI) is designed to provide a comprehensive introduction to AI concepts, theory, and practical applications. The course is divided into three chapters, with the first two chapters focusing on theory and the third chapter dedicated to hands-on laboratory work. By the end of this course, students will have a foundational understanding of AI principles and the ability to apply them in real-world scenarios.

**Chapter 1: Fundamentals of AI (10 hours):** Introduction to AI: Overview of AI, its history, and its importance. Machine Learning Basics: Introduction to machine learning, supervised and unsupervised learning, and common algorithms. Neural Networks and Deep Learning: Understanding artificial neural networks, deep learning, and their applications. Natural Language Processing (NLP): Introduction to NLP, text processing, sentiment analysis, and language models. AI in Computer Vision: Exploring computer vision, image recognition, and object detection.

**Chapter 2: Advanced AI Topics (10 hours):** Reinforcement Learning: Introduction to reinforcement learning, Markov decision processes, and Q-learning. Ethics in AI: Discussion on AI ethics, bias, fairness, and responsible AI development. AI Applications: Case studies and real-world applications of AI in healthcare, finance, and more. AI and Robotics: Exploring the integration of AI in robotics and autonomous systems. AI Future Trends: Discussion on the future of AI, emerging trends, and opportunities.

**Chapter 3: AI Laboratory (10 hours):** Setting Up an AI Environment: Installing necessary software and tools for AI development. Data Preprocessing: Data cleaning, feature engineering, and data preparation for AI models. Building and Training AI Models: Practical exercises in creating and training machine learning and deep learning models. Evaluating and Fine-Tuning Models: Model evaluation, hyperparameter tuning, and optimizing performance. AI Project Showcase: Presenting and discussing the AI projects developed during the laboratory sessions.

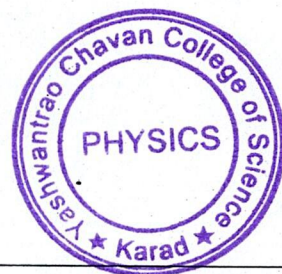


**Yashwantrao Chavan College of Science, Karad**

**Department of Physics**

**Short term Course - Artificial Intelligence (2023-24)**

Course Code	Short Term	Course:	Artificial Intelligence
Prepared by	Ms. P. K. Madane	Date	2023-24
Target Group: B.Sc. II			
Pre-requisites	<ul style="list-style-type: none"><li>• Basic (10+2) knowledge of science faculty</li><li>• Good analytical skills.</li><li>• Basic knowledge regarding programming concepts.</li></ul>		
<b>Course Outcomes</b>			
At the end of the course the students should be able to:			
CO1	Demonstrate an understanding of the history and significance of AI.		
CO2	Explain the basic principles of machine learning, including supervised and unsupervised learning.		
CO3	Comprehend artificial neural networks, deep learning, and their applications.		
CO4	Describe the fundamental concepts of Natural Language Processing (NLP).		
CO5	Discuss the principles of computer vision, image recognition, and object detection.		
CO6	Analyze ethical issues related to AI, including bias and fairness.		
CO7	Evaluate and present real-world applications of AI in various domains.		
CO8	Analyze ethical issues related to AI, including bias and fairness.		
CO9	Develop AI models and systems in a laboratory environment.		
CO10	Present and discuss AI projects developed during laboratory sessions.		



# YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

## Department of Physics

### Notice

Date: 24/07/2023

All the Students of the B. Sc. II are hereby informed that the Department of Physics is going to run a short-term course entitled as “**Artificial Intelligence**”. Interested Candidates enrol their names to Ms. P. K. Madane (Course Co-ordinator) on or before 1<sup>st</sup> August 2023.

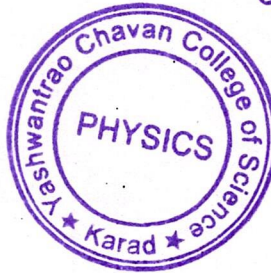
*P. Madane*

Course Co-ordinator

*P. K. Madane*

Head of Department

Department of Physics,  
Yashwantrao Chavan  
College of Science, Karad  
(Satara) 415124  
Maharashtra



# YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

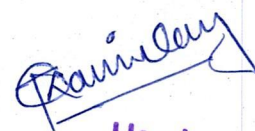
## Department of Physics

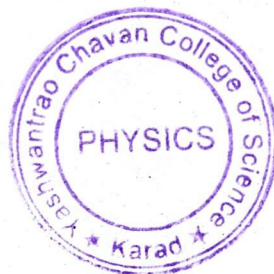
### Short Term course on "Artificial Intelligence"

Year 2023-24

- |                           |                         |
|---------------------------|-------------------------|
| 1. Class                  | : B.Sc. II              |
| 2. Duration of the course | : 3 months              |
| 3. Capacity               | : 20                    |
| 4. No. Students Enrolled  | : 20                    |
| 5. Theory Examination     | : Last week of November |
| 6. Practical Examination  | : Last week of November |

  
Course Co-ordinator

  
Head of the Department  
Department of Physics,  
Yashwantrao Chavan  
College of Science, Karad  
(Satara) 415124  
Maharashtra



# YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

## Department of Physics

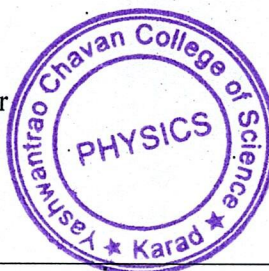
### Short Term Course on "Artificial Intelligence"

Year 2023-24

#### Name of the Enrolled Students

Roll No.	Name of Student	Sign
1065	Deshmukh Sanjana	<u>S.Deshmukh</u>
1066	Shewale Rushikesh Manik	<u>RShewale</u>
1067	Vakate Priyanka Baban	<u>P.Vakate</u>
1068	Waghamare Prathamesh Ramesh	<u>P.Waghamare</u>
1037	Bagal Anish Anil	<u>A.Bagal</u>
1038	Bhise Nikhil Dadaso	<u>N.Bhise</u>
1039	Bhosale Rutuja Sanjay	<u>A.S.Bhosale</u>
1040	Desai Sahil Shamarav	<u>S.Desai</u>
1041	Deshmane Prashant Pramod	<u>D.P.P.</u>
1042	Deshmukh Vaishnavi Ganesh	<u>Deshmukh</u>
1043	Fadtare Pranav Shidu	<u>P.Fadtare</u>
1044	Gavhane Shantanu Sanjay	<u>Shantanu</u>
1045	Ghadge Pavan Ananda	<u>P.Ghadge</u>
1046	Jadhav Rohan Mahendra	<u>R.Jadhav</u>
1047	Jadhav Raturaj Sanjay	<u>Raturaj</u>
1048	Jadhav Vishwajit Vasant	<u>V.V.Jadhav</u>
1049	Kachare Vijay Bharat	<u>V.Kachare</u>
1050	Kadam Viraj Bhagavan	<u>V.Kadam</u>
1051	Kamble Tejas Dayanan	<u>T.Kamble</u>
1052	Mali Prashant Sunil	<u>P.Mali</u>

P. Pradax  
Course Co-ordinator



P. Pradax  
Head of Department  
Department of Physics,  
Yashwantrao Chavan  
College of Science, Karad  
(Satara) 415124  
Maharashtra

**YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD**

**Department of Physics**


**Short Term Course on "Artificial Intelligence"**

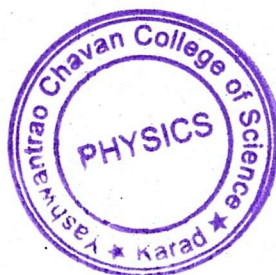
Year 2023-24


Theory Time Table

August 2023 to November 2023

Lect. time	Tuesday	Thursday	Saturday
09: 00 am to 09:50 am	Ms. P. K. Madane	Ms. P. K. Madane	Ms. P. K. Madane

  
Course Co-ordinator



  
Head of Department  
**Head,**  
Department of Physics,  
Yashwantrao Chavan  
College of Science, Karad  
(Satara) 415124  
Maharashtra



**YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD**

**Department of Physics  
Short Term Course in Physics  
Artificial Intelligence**

**Date:**

**Maximum Marks: 30**

**Time: 30 min**

**Class: B.Sc. II**

**Roll No.**

**Name of Student:**

- Note: 1. all questions are compulsory.  
2. Each question is for 2 marks.  
3. Write the correct answer in a rectangle.**

**1. Reinforcement learning is an area of \_\_\_\_\_.**

- a) Artificial Intelligence                      b) Data Analytics  
c) Machine Learning                            d) None of the above

**2. \_\_\_\_\_ is the Q-learning algorithm used for reinforcement learning.**

- a) Image recognition                            b) Clustering  
c) Natural language processing              d) Finding the optimal decision-making strategy

**3. Which of the following are Advantages of reinforcement learning?**

- a) Maximizes Performance  
b) Sustain Change for a long period of time  
c) Too much Reinforcement can lead to an overload of states which can diminish results  
d) All of the above

**4. Artificial Intelligence is about \_\_\_\_\_**

- a) Playing a game on Computer  
b) Making a machine Intelligent  
c) Programming on Machine with your Own Intelligence  
d) Putting your intelligence in Machine

**5. Who is known as the -Father of AI"?**

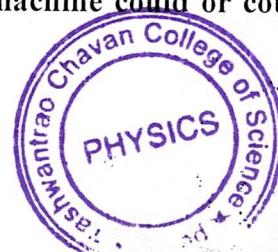
- a) Fisher Ada                                      b) Alan Turing  
c) John McCarthy                                d) Allen Newell

**6. If a robot is able to change its own trajectory as per the external conditions, then the robot is considered as the\_\_**

- a) Mobile    b) Non-Servo  
c) Open Loop                                        d) Intelligent

**7. A technique that was developed to determine whether a machine could or could not demonstrate the artificial intelligence known as the\_\_\_\_\_**

- a) Boolean Algebra                                b) Turing Test  
c) Logarithm                                        d) Algorithm





**YASHWANTRAO CHAVAN COLLEGE OF SCIENCE,  
KARAD**

**Department of Physics  
Short Term Course in Physics (B.Sc. II)  
Artificial Intelligence 2023-24  
Assignment**

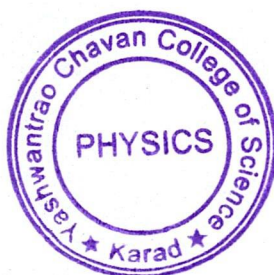
**Max. Marks: 30**

**Instruction:** 1. all questions are compulsory.  
2. Each question has 5 marks.

**Objective:** The goal of this assignment is to assess your understanding of fundamental concepts in Artificial Intelligence.

**Questions:**

1. Define neural networks and their role in machine learning. How do they mimic the human brain in learning?
2. Discuss the ethical considerations in AI development. Provide examples of potential ethical challenges in AI applications.
3. Explain the concept of reinforcement learning. Provide a real-world example where reinforcement learning could be applied.
4. What is the Turing Test, and how does it relate to the evaluation of AI systems? Explain the concept of supervised learning in machine learning. Provide an example scenario where supervised learning is applicable.
5. What is natural language processing (NLP)? Provide an application of NLP and discuss its challenges.
6. Elaborate on the importance of algorithms in AI. How do algorithms contribute to problem-solving in AI systems?



# YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

## Department of Physics

### Short Term Course Artificial Intelligence

#### Practical Examination 2023-24

Class: B.Sc. II

Date:

**Objective:** This assignment focuses on the practical application of AI concepts in solving real-world problems.

**Task:** Choose a specific industry or domain (e.g., healthcare, finance, transportation) and describe how AI can be applied to address challenges or enhance processes within that domain.

#### Instructions:

- Clearly define the chosen industry or domain.
- Provide detailed explanations of how AI concepts can be practically applied to address challenges or improve processes.
- Support your arguments with relevant examples or case studies.
- Consider the potential ethical implications and propose strategies for responsible AI implementation.

#### Questions:

1. Provide examples of existing AI applications or projects in the chosen domain, highlighting their impact and success.
2. Explore the ethical considerations that may arise in implementing AI solutions in the selected industry. How can these ethical concerns be addressed?
3. Explain how machine learning algorithms could be employed to analyze data and derive insights in the chosen domain.
4. Propose a scenario where reinforcement learning could be applied to optimize a process or decision-making within the chosen domain.
5. Discuss the potential use of natural language processing (NLP) in improving communication or information extraction within the selected industry.
6. Identify the chosen industry or domain and briefly describe its key challenges or areas where improvement is needed.



Yashwantrao Chavan College of Science, Karad

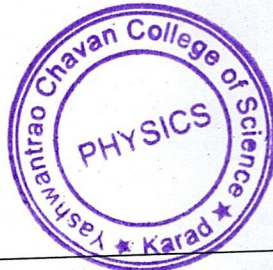
Department of Physics

Short term Course - Artificial Intelligence (2023-24)

Mark list

Roll. No.	Name of Student	Assignment (Out of 30)	Final Exam (Out of 30)	Practical Exam (Out of 40)	Total (Out of 100)
1065	Deshmukh Sanjana	23	26	38	87
1066	Shewale Rushikesh Manik	22	25	40	87
1067	Vakate Priyanka Baban	21	20	40	81
1068	Waghmare Prathamesh Ramesh	23	24	40	87
1037	Bagal Anish Anil	25	25	37	87
1038	Bhise Nikhil Dadaso	19	27	40	86
1039	Bhosale Rutuja Sanjay	21	28	40	89
1040	Desai Sahil Shamarav	21	26	40	87
1041	Deshmane Prashant Pramod	24	24	37	85
1042	Deshmukh Vaishnavi Ganesh	21	25	40	86
1043	Fadtare Pranav Shidu	21	26	40	87
1044	Gavhane Shantanu Sanjay	25	20	36	81
1045	Ghadge Pavan Ananda	20	25	40	85
1046	Jadhav Rohan Mahendra	21	27	37	85
1047	Jadhav Raturaj Sanjay	21	20	39	80
1048	Jadhav Vishwajit Vasant	22	22	36	80
1049	Kachare Vijay Bharat	21	24	40	85
1050	Kadam Viraj Bhagavan	21	20	39	80
1051	Kamble Tejas Dayanan	25	27	40	92
1052	Mali Prashant Sunil	22	28	38	88

*Anodae*  
Course Co-ordinator



*Rainday*  
Head of Department  
Head,  
Department of Physics,  
Yashwantrao Chavan  
College of Science, Karad  
(Satara) 415124  
Maharashtra

**Yashwantrao Chavan College of Science, Karad**  
**Department of Physics**  
**Short term Course - Artificial Intelligence (2023-24)**  
**CO & PO attainment**

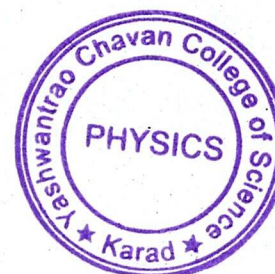
Average Attainment	Target Attainment level	Remark
3	Level 5	Target achieved

Course code	Course Title	% of students above 60 % of Final exam marks	Level of attainment Final exam	80% of attainment Level in Final exam (I)	% of students above 80 % of Assignment marks	Level of attainment	20% of attainment Level in Practical exam (II)	Attainment of course(I+II)
Short term	Artificial Intelligence	94.00	3	2.4	100	3	0.4	2.8

**By using below attainment levels 1,2,3 for the Percent of students in B**

For internal exam	
Level 1	Less than 60% of students scoring more than average marks
Level 2	60% - 80% of students scoring more than average marks
Level 3	more than equal to 80% of students scoring more than average marks

Programme outcome level	Target Attainment
Level 1	0.5-1.0
Level 2	1.0-1.5
Level 3	1.5-2.0
Level 4	2.0-2.5
Level 5	2.5-3.0



**YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD.**

**DEPARTMENT OF PHYSICS**

**Short Term Course**

**Artificial Intelligence 2023-24**

**Aug - Sep**

CCF-30

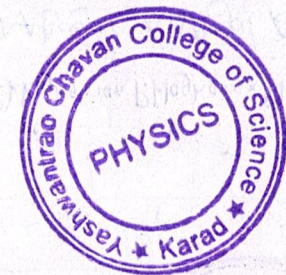
**B.Sc. - II 2023-24**

**Attendance**



Sr. No.	Roll No.	Name of the Student	01/8/23	3/8/23	5/8/23	8/8/23	10/08/23	12/08/23	29/08/23	31/08/23	2/09/23	5/09/23
1.	1065	Deshmukh Sanjana	<u>Deshmukh</u>	-	<u>Deshmukh</u>	<u>SDeshmukh</u>	<u>Deshmukh</u>	-	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>
2.	1066	Shewale Rushikesh Manik	-	<u>Ry</u>	<u>Ry</u>	-	<u>Ry</u>	<u>Ry</u>	<u>Ry</u>	<u>Ry</u>	<u>Ry</u>	<u>Ry</u>
3.	1067	Vakate Priyanka Baban	<u>Shukla</u>	<u>Shukla</u>	<u>Shukla</u>	-	<u>Shukla</u>	-	<u>Shukla</u>	<u>Shukla</u>	<u>Shukla</u>	<u>Shukla</u>
4.	1068	Waghamare Prathamesh Ramesh	<u>P.Waghamare</u>	-	<u>P.Waghamare</u>	-	<u>P.Waghamare</u>	<u>P.Waghamare</u>	<u>P.Waghamare</u>	<u>P.Waghamare</u>	<u>P.Waghamare</u>	<u>P.Waghamare</u>
5.	1037	Bagal Anish Anil	<u>AABagal</u>	<u>AABagal</u>	<u>AABagal</u>	<u>AABagal</u>	<u>AABagal</u>	<u>AABagal</u>	-	<u>AABagal</u>	<u>AABagal</u>	<u>AABagal</u>
6.	1038	Bhise Nikhil Dadaso	<u>NDBhise</u>	-	<u>NDBhise</u>	<u>NDBhise</u>	-	<u>NDBhise</u>	<u>NDBhise</u>	<u>NDBhise</u>	<u>NDBhise</u>	<u>NDBhise</u>
7.	1039	Bhosale Rutuja Sanjay	<u>R.S.Bhosale</u>	<u>R.S.Bhosale</u>	<u>R.S.Bhosale</u>	<u>R.S.Bhosale</u>	<u>R.S.Bhosale</u>	<u>R.S.Bhosale</u>	-	<u>R.S.Bhosale</u>	<u>R.S.Bhosale</u>	<u>R.S.Bhosale</u>
8.	1040	Desai Sahil Shamarav	<u>Desai</u>	<u>Desai</u>	-	<u>Desai</u>	<u>Desai</u>	<u>Desai</u>	<u>Desai</u>	<u>Desai</u>	<u>Desai</u>	<u>Desai</u>
9.	1041	Deshmane Prashant Pramod	<u>D.P.P</u>	<u>D.P.P</u>	-	<u>D.P.P</u>	<u>D.P.P</u>	<u>D.P.P</u>	-	<u>D.P.P</u>	<u>D.P.P</u>	<u>D.P.P</u>
10.	1042	Deshmukh Vaishnavi Ganesh	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>
11.	1043	Fadare Pranav Shidu	<u>Fadare</u>	<u>Fadare</u>	<u>Fadare</u>	<u>Fadare</u>	<u>Fadare</u>	<u>Fadare</u>	<u>Fadare</u>	<u>Fadare</u>	<u>Fadare</u>	<u>Fadare</u>
12.	1044	Gavhane Shantanu Sanjay	<u>shantanu</u>	<u>shantanu</u>	<u>shantanu</u>	<u>shantanu</u>	<u>shantanu</u>	-	<u>shantanu</u>	<u>shantanu</u>	<u>shantanu</u>	<u>shantanu</u>
13.	1045	Ghadge Pavan Ananda	<u>P.Ghadge</u>	<u>P.Ghadge</u>	<u>P.Ghadge</u>	<u>P.Ghadge</u>	<u>P.Ghadge</u>	<u>P.Ghadge</u>	<u>P.Ghadge</u>	<u>P.Ghadge</u>	<u>P.Ghadge</u>	<u>P.Ghadge</u>
14.	1046	Jadhav Rohan Mahendra	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	<u>Jadhav</u>	-	<u>Jadhav</u>	<u>Jadhav</u>	-	<u>Jadhav</u>

15.	1047	Jadhav Raturaj Sanjay	<u>Raturaj</u>	<u>Raturaj</u>	<u>Raturaj</u>	<u>Raturaj</u>	<u>Raturaj</u>	<u>Raturaj</u>	<u>Raturaj</u>	-	<u>Raturaj</u>	<u>Raturaj</u>
16.	1048	Jadhav Vishwajit Vasant	<u>v.v.jadhav</u>	<u>v.v.jadhav</u>	<u>v.v.jadhav</u>	-	<u>v.v.jadhav</u>	<u>v.v.jadhav</u>	-	<u>v.v.jadhav</u>	<u>v.v.jadhav</u>	<u>v.v.jadhav</u>
17.	1049	Kachare Vijay Bharat	<u>OBKachare</u>	<u>OBKachare</u>		<u>OBKachare</u>	<u>OBKachare</u>	<u>OBKachare</u>	<u>OBKachare</u>	<u>OBKachare</u>	<u>OBKachare</u>	<u>OBKachare</u>
18.	1050	Kadam Viraj Bhagavan	<u>VBK</u>	<u>VBK</u>	<u>VBK</u>	<u>VBK</u>	-	<u>VBK</u>	<u>VBK</u>	<u>VBK</u>	<u>VBK</u>	<u>VBK</u>
19.	1051	Kamble Tejas Dayanan	<u>kamble</u>	<u>kamble</u>	<u>kamble</u>	<u>kamble</u>	<u>kamble</u>	<u>kamble</u>	<u>kamble</u>	<u>kamble</u>	-	<u>kamble</u>
20.	1052	Mali Prashant Sunil	<u>P.s.mali</u>	<u>P.s.mali</u>	<u>P.s.mali</u>	<u>P.s.mali</u>	<u>P.s.mali</u>	<u>P.s.mali</u>	<u>P.s.mali</u>	<u>P.s.mali</u>	-	<u>P.s.mali</u>



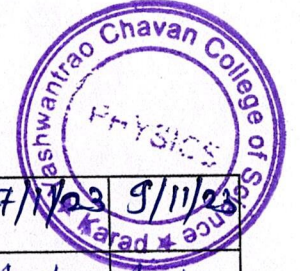


**YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD.**

**DEPARTMENT OF PHYSICS**

**Short Term Course  
Artificial Intelligence**

CCF-30

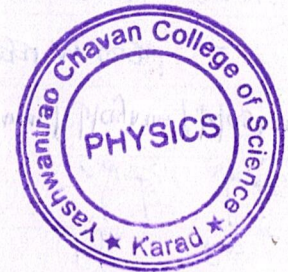


B.Sc. - II 2023-24

**Attendance**

Sr. No.	Roll No.	Name of the Student	9/9/23	26/09/23	30/9/23	3/10/23	5/10/23	7/10/23	2/11/23	4/11/23	7/11/23	9/11/23
1.	1065	Deshmukh Sanjana	Deshmukh	-	Deshmukh	-	Deshmukh	Deshmukh	Deshmukh	Deshmukh	Deshmukh	Deshmukh
2.	1066	Shewale Rushikesh Manik	RR	RR	-	RR	RR	-	RR	RR	RR	RR
3.	1067	Vakate Priyanka Baban	-	RR	RR	RR	-	RR	RR	RR	RR	RR
4.	1068	Waghmare Prathamesh Ramesh	P.Waghmare	-	P.Waghmare	P.Waghmare	-	P.Waghmare	P.Waghmare	P.Waghmare	P.Waghmare	P.Waghmare
5.	1037	Bagal Anish Anil	AABagal	AABagal	AABagal	AABagal	AABagal	AABagal	AABagal	AABagal	AABagal	-
6.	1038	Bhise Nikhil Dadaso	NDBhise	NDBhise	NDBhise	NDBhise	NDBhise	NDBhise	NDBhise	NDBhise	NDBhise	NDBhise
7.	1039	Bhosale Rutuja Sanjay	R.S.Bhosale	R.S.Bhosale	R.S.Bhosale	R.S.Bhosale	R.S.Bhosale	-	R.S.Bhosale	R.S.Bhosale	R.S.Bhosale	R.S.Bhosale
8.	1040	Desai Sahil Shamarav	Sesai	Sesai	-	Sesai	Sesai	Sesai	Sesai	Sesai	Sesai	Sesai
9.	1041	Deshmane Prashant Pramod	D.P.P	-	D.P.P	D.P.P	D.P.P	D.P.P	D.P.P	D.P.P	D.P.P	-
10.	1042	Deshmukh Vaishnavi Ganesh	Deshmukh	Deshmukh	Deshmukh	Deshmukh	Deshmukh	Deshmukh	Deshmukh	Deshmukh	Deshmukh	Deshmukh
11.	1043	Fadtare Pranav Shidu	Fadtare	Fadtare	Fadtare	Fadtare	Fadtare	Fadtare	Fadtare	Fadtare	Fadtare	Fadtare
12.	1044	Gavhane Shantanu Sanjay	Shantanu	Shantanu	Shantanu	-	Shantanu	Shantanu	Shantanu	Shantanu	Shantanu	Shantanu
13.	1045	Ghadge Pavan Ananda	P.Ghadge	P.Ghadge	P.Ghadge	P.Ghadge	P.Ghadge	P.Ghadge	P.Ghadge	P.Ghadge	P.Ghadge	P.Ghadge
14.	1046	Jadhav Rohan Mahendra	Jadhav	Jadhav	-	Jadhav	-	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav

15.	1047	Jadhav Raturaj Sanjay	<u>Raturaj</u>	<u>Raturaj</u>	<u>Raturaj</u>	<u>Raturaj</u>	<u>Raturaj</u>	<u>Raturaj</u>	-	<u>Raturaj</u>	<u>Raturaj</u>	<u>Raturaj</u>
16.	1048	Jadhav Vishwajit Vasant	<u>V.V.Jadhav</u>	-	<u>V.V.Jadhav</u>	-	<u>V.V.Jadhav</u>	<u>V.V.Jadhav</u>	<u>V.V.Jadhav</u>	<u>V.V.Jadhav</u>	<u>V.V.Jadhav</u>	<u>V.V.Jadhav</u>
17.	1049	Kachare Vijay Bharat	<u>OBKachare</u>	<u>OBKachare</u>	<u>OBKachare</u>		<u>OBKachare</u>	<u>OBKachare</u>	<u>OBKachare</u>	<u>OBKachare</u>	<u>OBKachare</u>	<u>OBKachare</u>
18.	1050	Kadam Viraj Bhagavan	<u>OBK</u>	<u>OBK</u>	<u>OBK</u>	<u>OBK</u>	<u>OBK</u>	<u>OBK</u>	<u>OBK</u>	<u>OBK</u>	<u>OBK</u>	<u>OBK</u>
19.	1051	Kamble Tejas Dayanan	<u>Kamble</u>	<u>Kamble</u>	<u>Kamble</u>	<u>Kamble</u>	<u>Kamble</u>	<u>Kamble</u>	<u>Kamble</u>			
20.	1052	Mali Prashant Sunil	<u>P.S.Mali</u>	<u>P.S.Mali</u>	-	<u>P.S.Mali</u>	<u>P.S.Mali</u>	<u>P.S.Mali</u>	<u>P.S.Mali</u>	<u>P.S.Mali</u>	<u>P.S.Mali</u>	<u>P.S.Mali</u>
			<u>P.S.Mali</u>	<u>P.S.Mali</u>		<u>P.S.Mali</u>	<u>P.S.Mali</u>	<u>P.S.Mali</u>	<u>P.S.Mali</u>	<u>P.S.Mali</u>	<u>P.S.Mali</u>	<u>P.S.Mali</u>



**YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD.**

**DEPARTMENT OF PHYSICS**

Short Term Course

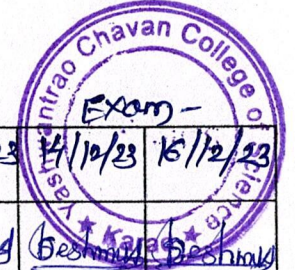
Artificial Intelligence

23-24

CCF-30

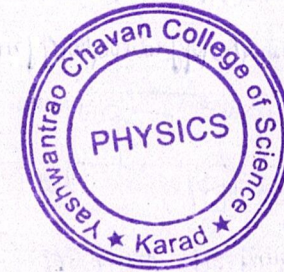
B.Sc. - II 2023-24

Attendance



Sr. No.	Roll No.	Name of the Student	11/11/23	28/11/23	30/11/23	2/12/23	5/12/23	7/12/23	9/12/23	12/12/23	14/12/23	16/12/23
1.	1065	Deshmukh Sanjana	Deshmukh	Deshmukh	-	Deshmukh	-	Deshmukh	Deshmukh	Deshmukh	Deshmukh	Deshmukh
2.	1066	Shewale Rushikesh Manik	RS	-	RS	RS	RS	-	RS	RS	RS	RS
3.	1067	Vakate Priyanka Baban	Vakate	Vakate	Vakate	-	Vakate	Vakate	Vakate	Vakate	Vakate	Vakate
4.	1068	Waghmare Prathamesh Ramesh	P.Waghmare	P.Waghmare	P.Waghmare	P.Waghmare	P.Waghmare	P.Waghmare	P.Waghmare	P.Waghmare	P.Waghmare	-
5.	1037	Bagal Anish Anil	AABagal	AABagal	AABagal	AABagal	AABagal	-	AABagal	AABagal	AABagal	AABagal
6.	1038	Bhise Nikhil Dadaso	NDBhise	NDBhise	NDBhise	NDBhise	NDBhise	NDBhise	NDBhise	NDBhise	-	-
7.	1039	Bhosale Rutuja Sanjay	R.S.Bhosale	R.S.Bhosale	R.S.Bhosale	R.S.Bhosale	R.S.Bhosale	R.S.Bhosale	-	R.S.Bhosale	R.S.Bhosale	R.S.Bhosale
8.	1040	Desai Sahil Shamarav	Sesai	-	Sesai	Sesai	Sesai	Sesai	Sesai	Sesai	Sesai	Sesai
9.	1041	Deshmane Prashant Pramod	D.P.P	D.P.P	D.P.P	D.P.P	D.P.P	-	D.P.P	D.P.P	D.P.P	D.P.P
10.	1042	Deshmukh Vaishnavi Ganesh	Deshmukh	Deshmukh	Deshmukh	Deshmukh	Deshmukh	Deshmukh	Deshmukh	Deshmukh	Deshmukh	Deshmukh
11.	1043	Fadtare Pranav Shidu	Fadtare	Fadtare	Fadtare	Fadtare	Fadtare	Fadtare	Fadtare	Fadtare	Fadtare	Fadtare
12.	1044	Gavhane Shantanu Sanjay	Shantany	Shantany	Shantany	Shantany	Shantany	Shantany	Shantany	Shantany	-	Shantany
13.	1045	Ghadge Pavan Ananda	P.Ghadge	P.Ghadge	P.Ghadge	P.Ghadge	P.Ghadge	P.Ghadge	P.Ghadge	P.Ghadge	P.Ghadge	P.Ghadge
14.	1046	Jadhav Rohan Mahendra	Jadhav	Jadhav	Jadhav	-	Jadhav	Jadhav	Jadhav	-	Jadhav	Jadhav

15.	1047	Jadhav Raturaj Sanjay	<u>Raturaj</u>	<u>Raturaj</u>	<u>Raturaj</u>	<u>Raturaj</u>	<u>Raturaj</u>	<u>Raturaj</u>	<u>Raturaj</u>	<u>Raturaj</u>	<u>Raturaj</u>
16.	1048	Jadhav Vishwajit Vasant	<u>v.v.jadhav</u>	<u>v.v.jadhav</u>	<u>v.v.jadhav</u>	<u>v.v.jadhav</u>	<u>v.v.jadhav</u>	<u>v.v.jadhav</u>	-	-	<u>v.v.jadhav</u>
17.	1049	Kachare Vijay Bharat	<u>OBKachare</u>		<u>OBKachare</u>	<u>OBKachare</u>	<u>OBKachare</u>	<u>OBKachare</u>	<u>OBKachare</u>	<u>OBKachare</u>	<u>OBKachare</u>
18.	1050	Kadam Viraj Bhagavan	<u>Obk</u>	<u>Obk</u>	<u>Obk</u>	<u>Obk</u>	<u>Obk</u>	-	<u>Obk</u>	<u>Obk</u>	<u>Obk</u>
19.	1051	Kamble Tejas Dayanan	<u>kamblet</u>	<u>kamblet</u>	<u>kamblet</u>	<u>kamblet</u>	<u>kamblet</u>	<u>kamblet</u>	<u>kamblet</u>	<u>kamblet</u>	<u>kamblet</u>
20.	1052	Mali Prashant Sunil	<u>P.s.mali</u>	<u>P.s.mali</u>	<u>P.s.mali</u>	-	-	<u>P.s.mali</u>	<u>P.s.mali</u>	<u>P.s.mali</u>	<u>P.s.mali</u>



Oct-20

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Board for Higher Education's, Vidyanagar Karad's

# Yashwantrao Chavan College of Science, Karad



- Vidyanagar, Karad - 415 124.
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- An ISO 9001 : 2015 Certified College




## Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Kamble Tejas Dayanan  
of Class B.Sc - II has Completed Short Term Course (3 Months) in \_\_\_\_\_  
Artificial Intelligence conducted by the department of  
Physics during the academic year 2023 - 2024

  
Course Co-ordinator

  
Head of the Department

  
IQAC Co-ordinator

  
Principal

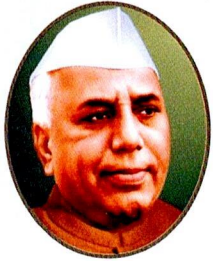
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## Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Mali prashant sunil  
of Class B.Sc-II has Completed Short Term Course (3 Months) in \_\_\_\_\_  
Artificial Intelligence conducted by the department of  
physics during the academic year 2023 - 2024

Amol  
Course Co-ordinator

[Signature]  
Head of the Department

[Signature]  
IQAC Co-ordinator

[Signature]  
Principal

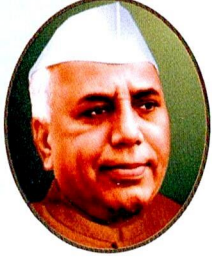
Estd.:

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## Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Deshmukh Sanjana  
of Class B.Sc-II has Completed Short Term Course (3 Months) in \_\_\_\_\_  
Artificial Intelligence conducted by the department of  
Physics during the academic year 2023 - 2024

Pradare  
Course Co-ordinator

[Signature]  
Head of the Department

[Signature]  
IQAC Co-ordinator

[Signature]  
Principal

Estd.:

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## Short Term Course Certificate of Completion

This is to certify that Mr./Miss. shewale Rushikesh Manik  
of Class B.Sc-II has Completed Short Term Course (3 Months) in \_\_\_\_\_  
Artificial Intelligence conducted by the department of  
physics during the academic year 2023 - 2024

Amol  
Course Co-ordinator

Shri  
Head of the Department

Shri  
IQAC Co-ordinator

Shri  
Principal



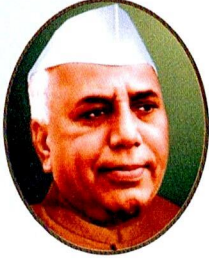
Estd.:

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## Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Waghware Prathamesh Ramesh  
of Class B.Sc-II has Completed Short Term Course (3 Months) in \_\_\_\_\_  
Artificial Intelligence conducted by the department of  
physics during the academic year 2023-2024

Poojara  
Course Co-ordinator

[Signature]  
Head of the Department

[Signature]  
IQAC Co-ordinator

[Signature]  
Principal

Estd.:

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## Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Bagal Anish Anil

of Class B.Sc-II has Completed Short Term Course (3 Months) in \_\_\_\_\_

Artificial Intelligence conducted by the department of \_\_\_\_\_

physics during the academic year 2023 - 2024

Poradar  
Course Co-ordinator

Prabhu  
Head of the Department

Pranav  
IQAC Co-ordinator

Prin  
Principal

23-24

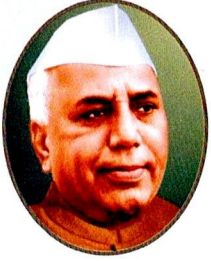
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## Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Bhosale Rutuja Sanjay  
of Class B.Sc - II has Completed Short Term Course (3 Months) in \_\_\_\_\_  
Artificial Intelligence conducted by the department of  
physics during the academic year 2023 - 2024

Course Co-ordinator

Head of the Department

IQAC Co-ordinator  
Internal Quality Assurance Cell (IQAC)  
Yashwantrao Chavan College  
of Science, Karad

Principal

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## Short Term Course

# Certificate of Completion

This is to certify that Mr./Miss. Deshmukh Vaishnavi Ganesh  
of Class B.Sc-II has Completed Short Term Course (3 Months) in \_\_\_\_\_  
Artificial Intelligence conducted by the department of  
Physics during the academic year 2023 - 2024

Pradax

Course Co-ordinator

Pradax

Head of the Department

Pradax  
Internal Quality Assurance Cell (IQAC),  
Yashwantrao Chavan College  
of Science, Karad

IQAC Co-ordinator

Pradax

Principal

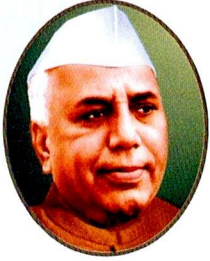
Estd.:

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Board for Higher Education's, Vidyanagar Karad's

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## Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Fadtare Pranav Shidu  
of Class B.Sc - II has Completed Short Term Course (3 Months) in \_\_\_\_\_  
Artificial Intelligence conducted by the department of  
Physics during the academic year 2023 - 2024

Pradare  
Course Co-ordinator

Pravind  
Head of the Department

[Signature]  
Co-ordinator  
Internal Quality Assurance Cell (IQAC),  
Yashwantrao Chavan College  
of Science, Karad

[Signature]  
Principal

Estd.:

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Board for Higher Education's, Vidyanagar Karad's

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## Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Vakate Priyanka Baban  
of Class B.Sc - II has Completed Short Term Course (3 Months) in \_\_\_\_\_  
Artificial Intelligence conducted by the department of  
physics during the academic year 2023 - 2024

Amol  
Course Co-ordinator

Priyanka  
Head of the Department

Sumit  
IQAC Co-ordinator  
Internal Quality Assurance Cell (IQAC),  
Yashwantrao Chavan College  
of Science, Karad

Amol  
Principal