Rayat Shikshan Sanstha's Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar, Pune

Department of Electronic Science Certificate Course in Artificial Intelligence 2024-25

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Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar, Tal. Ambegaon, Dist. Pune 410503

Department of Electronic Science

Short-Term Course Artificial Intelligence Report 2024-25

Name of Program	Artificial Intelligence
Event Date	18/12/2024 - 20/3/2025
Event Participants	FYBSc Class
Event Time	9.45 AM
Mode of Conduction	Offline at the College Level
Event Coordinator	Ms J B Khilari
No. of Beneficiary	12
Objectives	To prepare students for innovation in the area of Artificial Intelligence, in two ways: firstly, the creation of innovative techniques and methods within the research area of Artificial Intelligence secondly, the application of these techniques and methods relative to social and business reality as well as creating processes and innovative computer solutions. The primary objective of this program is to enhance the skills of students in advanced domains of Information Technology keeping pace with the IT industry.
Outcomes	Students have gained extensive details of subject knowledge along with practical knowledge. Case studies and practical examples enrich concepts on that topic and that will help to make projects. Students benefited from that course. The students may be exposed to the needs of the IT industry so that they can in turn nurture, educate and mould their career while they are still in college.
Enclosure	1] Event Photos

Course Co-Ordinator



Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar, Tal. Ambegaon, Dist. Pune PIN 410503

Value Added Courses Science Faculty Academic Year 2024-25 NOTICE

Date: 01/10/2024

All Head of the Science Faculty are here by informed that during academic year 2024-25 all Science Value Added Courses and students' strength are decided below pattern. All should prepare Value Added Course Time Table and conduct the Course and keep records in their respective department.

SN	N Dept. Certificate Course Title		Class and Batch Name	Total
1	Electronics	Certificate Course in Artificial Intelligence	F. Y. B. Sc. Batch F	12
2	Botany	Certificate Course in Organic Farming	F. Y. B. Sc. Batch D	16
3	Zoology	Certificate Course in Apiculture	F. Y. B. Sc. Batch B	16
4	Chemistry	Certificate Course in Dairy Science	F. Y. B. Sc. Batch A+E	29
5	Physics	Certificate Course in C-	F. Y. B. Sc. Batch C+G	
6	Biotech.	Language Certificate Course in Plant Tissue Culture	F. Y. Biotech.	16

Value Added Course Committee



PRINCIPAL

Annasaheb / Hutatma Ba Manchar, T

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Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar

Department of Electronic Science

Short Term Course - 2024-25

Certificate Course in Artificial Intillgence

Class: FYBSc

List of Students

Sr. No	Roll No	Student Name	Gender
1	4079	MENGADE SANIKA RAJENDRA	Female
2	4080	MODHEKAR ROHIT RAVINDRA	Male
3	4083	SHAIKH RIDA MOHAMMADSHARIF	Female
4	4084	SHAIKH SANIYA SAYEED	Female
5	4085	TAMBOLI ALISHA AJIJ	Female
6	4086	THORAT KIRAN DATTATRAY	Female
7	4101	BHOR HARSHAD RUSHIKESH	Male
8	4104	KAKADE SANIYA RAMESH	Female
9	4106	JAGTAP SHIVANJALI SANTOSH	Female
10	4111	GANGE PRATIK KASHINATH	Male
11	4057	PARDHI RUTUJA CHANDRAKANT	Female
12	4094	LABADE TRUPTI KISAN	Female

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Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar, Pune

Department of Electronic Science

NOTICE

Date - 13/12/2024

All students of F.Y.B.Sc. are hereby informed that the Short-Term Course on "Artificial Intelligence" will commence from 16/12/2024. All the students of this course should remain present for the classes and practicals as per the timetable. It is mandatory for all enrolled students.

Venue: Electronic Science Lab

Time: 10.00 AM to 11.00 AM

Coordinator

SHEB AWATE COLLEGE OF THE AWAT

Head

Dept. Head

A. A. College, Manchar

Annasaheb Awate Art's, Commerce& Hutatma Babu Genu Science College, Manchar Pune Department of Electronic Science

Short Term Course 2024-25

Artificial Intelligence

Class- F.Y.B.Sc.

Artificial Intelligence Total Lectures: 45 Credit: 3

Course Objectives:

- To learn various types of algorithms useful in Artificial Intelligence (AI).
- To convey the ideas in AI research related to emerging technology.
- To introduce ideas and techniques underlying the design of intelligent computer systems

Course Outcomes:

After successful completion of this course, learner will be able to:

- Apply the suitable algorithms to solve AI problems
- Identify and apply suitable Intelligent agents for various AI applications
- Build smart system using different informed search / uninformed search or heuristic approaches

Represent complex problems with expressive language of representation

	Course Contents	
Unit I	Introduction to Artificial Intelligence	5Hrs
	1.1 Introduction to AI	
	1.2 Comparison of AI, Machine Learning, Deep Learning	
	1.3 Applications of AI	
	1.4 AI Techniques	
	1.5 Intelligent Agents, Agents and Environments, Structure of Agents	
Unit II	Problems, Problem Spaces and search	5 Hrs
	2.1 Defining problem as a State Space Search	
	2.2 Production System	
	2.3 Problem Characteristics	
	2.4 Search & Control Strategies	
	2.5 Problems - Water Jug problem, Missionary Cannibal Problem,	
	Block words Problem, Monkey & Banana problem	
Unit III	Searching Algorithms	6 Hrs
	3.1 Uninformed Search Algorithms/Blind Search Techniques	
	3.1.1 Breadth-first Search	
	3.1.2 Depth-first Search	
	3.2 Informed (Heuristic) search Techniques	
	3.2.1 Generate-and-test	
	3.2.2 Simple Hill Climbing	



	3.2.3 Best First Search	
	3.2.4 Constraint Satisfaction	
	3.2.5 Means End Analysis	
	3.2.6 A* and AO*	7 Hrs
nit IV	Knowledge Representation	
	4.1 Definition of Knowledge 4.2 Types of knowledge (Procedural and Declarative knowledge)	
	4.3 Approaches to Knowledge Representation 4.4 Knowledge representation using Propositional and Predicate logic	
	4.5 Conversion to clause form	
	4.6 Resolution in Proposition al logic	
	4.7 Resolution in Predicate logic	4 Hrs
Jnit V	Slot and Filler Structures	1
	5.1 Weak structures (Semantic networks and Frame)	
	5.2 Strong structures (Conceptual dependencies and Script)	
		4 Hrs
Unit VI	Recent Trends in AI and Applications	
	6.1 Introduction to Machine Learning,	
	6.2 Types of Learning, (Supervised, Unsupervised and Reinforcement	
	Learning),	
	6.3 Predictive Analytics (Weather Forecasting)	
	6.4 AI-Powered Chat bots (SBI card chat boot (ILA))	
Practic	al's	15 H
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	Use of operating point, entry point, exist point, Operator Program Water Jug problem, Missionary Cannibal Problem, Block words Problem, Monkey & Banana problem Program for Weak structures (Semantic networks and Frame) Strong structures (Conceptual dependencies and Script) Write a program of Predictive Analytics (Weather Forecasting)	
	Use of operating point, entry point, exist point, Operator Program Water Jug problem, Missionary Cannibal Problem, Block words Problem, Monkey & Banana problem Program for Weak structures (Semantic networks and Frame) Strong structures (Conceptual dependencies and Script)	

- 1) Artificial Intelligence- A Modern Approach (3rd edition)
- 2) Artificial Intelligence By Example-2nd edition
- 3) Artificial Intelligence Engines: A Tutorial Introduction to the Mathematics of Deep Learning
- 4) Artificial Intelligence and Machine Learning 1st Edition
- 5) A First Course in Artificial Intelligence
- 6) Artificial Intelligence: A Modern Approach, Russel & Norving Pearson Education

E-Reference:

- 1) https://www.oracle.com/in/chatbots/what-is-a-chatbot/
- 2) https://www.dataversity.net/case-study-predictive-analytics-and-science-keep-an-eye-on-theweather/

Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar, Pune

Short Term Course on Artificial Intelligence For

First Year B.Sc. Electronic Science 2024-25

ìme	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5 am						
0.45			Theory	Theory	Practical	

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Certificate Course in Artificial Intelligence

Class: FYBSc

Department of Electronic Science
Ms. A M Dange
Ms. A M Dange
Ms. J B Khilari
12
12
3 Months

Scope of the Course

- To learn various types of algorithms useful in Artificial Intelligence (AI).
- To convey the ideas in AI research related to emerging technology.
- To introduce ideas and techniques underlying the design of intelligent computer systems

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Rayat Shikshan Sanstha's nnasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar, Pune

Department of Electronic Science Certificate Course in Artificial Intelligence 2024-25

EXAM NOTICE

Date - 14/03/2025

All students of F.Y.B.Sc. are hereby informed that the Short-Term Course Exam on "Artificial Intelligence" will be held on 20 March 2025. All the students of this course should remain present for the Exam. It is mandatory for all enrolled students.

Course Co-ordinator

MANCHAR *

Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar Department of Electronic Science

Short Term Course - 2024-25

Short Term Course in Artificial Intillgence

Class: FYBSc

Theory Attendance

Sr.			Theory Attendance
No	Roll No	Student Name	9/0/2 9/0 8/1/1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1
1	4079	MENGADE SANIKA RAJENDRA	THE
2	4080	MODHEKAR ROHIT RAVINDRA	040010101010101010101010101010101010101
3	4083	SHAIKH RIDA MOHAMMADSHARIF	Mary And Annology of the state
4	4084	SHAIKH SANIYA SAYEED	conto contra con
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6	4086	THORAT KIRAN DATTATRAY	Say Some Small and James Small and forther forbal sond fambell
7	4101	BHOR HARSHAD RUSHIKESH	They was the track the track the track the track that the
8	4104	KAKADE SANIYA RAMESH	Rate Cale Cale Kale Kale Cale Labora Cale Cale Cale
9	4106	JAGTAP SHIVANJALI SANTOSH	Care Care Care Care Care Care Care Care
10	4111	GANGE PRATIK KASHINATH	
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Head

Head
Dept. of Electronice Science
A. A. College, Manchar

Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar Department of Electronic Science

Short Term Course - 2024-25

Short Term Course in Artificial Intillgence

Class: FYBSc

Practical Attendance

Sr. No	Roll No	Student Name	9/12	2/10	lin	1/24	In The	11	11	22	12	12	1/2	22	22	2	No	
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Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar Department of Electronic Science

Short Term Course - 2024-25

Short Term Course in Artificial Intillgence

Class: FYBSc

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5	4085	TAMBOLI ALISHA AJIJ	Saldle	Reside	Locker	Donbell	2 miles	landel	Inde	Rembol 1	Quelle	Panhell	Dalade	horted	bordel	La	D. J.
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Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar

Department of Electronic Science Short Term Course - 2024-25

Class: F.Y.B.Sc.

Certificate Course in Artificial Intillgence Result

Sr. No	Roll No	Student Name	Total	Grades
1	4079	MENGADE SANIKA RAJENDRA	70	В
2	4080	MODHEKAR ROHIT RAVINDRA	79	В
3	4083	SHAIKH RIDA MOHAMMADSHARIF	71	В
4	4084	SHAIKH SANIYA SAYEED	80	А
5	4085	TAMBOLI ALISHA AJIJ	62	С
6	4086	THORAT KIRAN DATTATRAY	72	В
7	4101	BHOR HARSHAD RUSHIKESH	AA	AA
8	4104	KAKADE SANIYA RAMESH	73	В
,	4106	JAGTAP SHIVANJALI SANTOSH	AA	AA
0	4111	GANGE PRATIK KASHINATH	79	В
1	4057	PARDHI RUTUJA CHANDRAKANT	80	А
2		LABADE TRUPTI KISAN	74	В

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