



GOA BOARD OF SECONDARY AND HIGHER SECONDARY EDUCATION

(A Corporate Statutory Body constituted by an Act of the State Legislature)

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GBSHSE/ACAD/SSC-HSSC/AI-(ICT)/2023

Date: - 08/06/2023

CIRCULAR NO. 41

To,
The Heads of all recognized
Secondary and Higher Secondary Schools,
within the jurisdiction of this Board.

Sub: Implementation of **Artificial Intelligence (AI)** as additional 7th Subject for Class IX onwards from the Academic year 2023-2024 and Change of ICT syllabus for Class IX and Class XI from the Academic year 2023-2024.

Sir/Madam,

1. With reference to the above cited subject, the new subject **Artificial Intelligence (AI)** has been introduced as additional Subject in line with NSQF Scheme as 7th subject for Class IX from the Academic year 2023-2024.
2. The subject **Artificial Intelligence (AI)** shall be implemented in all schools which are not offering NSQF subject.
3. In partial Modification to circular No.33, dated 28th June 2022, the syllabus of **Artificial Intelligence (AI)** / **ICT** of Class IX and Class XI will be same for the Academic year 2023-24 under school Assessment.
4. Those Schools/Students opting for **Artificial Intelligence (AI)** as 7th subject at Class IX, the existing School Assessment Subject, **ICT** will be exempted.
5. For Schools/Students not opting **Artificial Intelligence (AI)** as 7th subject, the existing School Assessment Subject **ICT** continues with this modified Artificial Intelligence syllabus, however the nomenclature for the school assessment subject will remain **ICT**.
6. Pattern of Assessment for **Artificial Intelligence (AI)** at Class IX, as 7th subject will have **40 marks** theory (20 marks for First Term and 20 marks for Second Term) and **60 marks** practical (30 marks for First Term and 30 marks for Second Term) similar to that of NSQF. The Unit wise distribution, etc. for Artificial Intelligence subject is enclosed herewith.
7. It is recommended to have 5 sessions of 35 minutes each per week for Artificial Intelligence for Class IX and Class XI.

8. The existing syllabus of ICT in Class IX and Class XI is changed, keeping in mind with changes in the field of Information Technology. The Board of Studies in ICT of Goa Board of Secondary and Higher Secondary has decided to implement revised syllabus of class IX and class XI from the Academic year 2023-2024.
9. The syllabus of ICT is available in **Artificial Intelligence** book of Class IX.
10. In the academic year 2024-2025, Class X curriculum of Artificial Intelligence will be implemented for Class XI.
11. The current curriculum in **ICT** for Class X and Class XII will remain unchanged.
12. The Text book for **Artificial Intelligence (AI)** of Class IX will be made available in open market by Goa Board very soon.
13. Trainings will be imparted to the Computer Teachers, teaching ICT / Artificial Intelligence (AI) at Class IX and Class XI. The details schedule of the training will be communicated very shortly.

Therefore, Heads of the Institutions are hereby requested to disseminate this information to the concerned. The copy of Circular be displayed on the Notice Board at a prominent place for information and needful action.

 09/16/23

(V. B. Naik)
Secretary

Enclosed: As above

Copy to:-

1. The Director of Education, Porvorim-Goa.
2. The Director of SCERT, Alto Betim-Goa.
3. Heads of Sections of this Office.
4. P.A. to Chairman.

Academic Year 2023-24

Semister I

UNIT	Name of the Chapter	No of Sessions
1	INTRODUCTION TO ARTIFICIAL INTELLIGENCE	5
2	BASICS OF ARTIFICIAL INTELLIGENCE	6
3	INTRODUCTION TO PYTHON	50
4	JUPYTER NOTEBOOK	7
5	ARTIFICIAL INTELLIGENCE ETHICS	3
	Total	70

Semister II

UNIT	Name of the Chapter	No of Sessions
1	PYTHON PROGRAMMING	60
2	NEURAL NETWORK	7
3	EMERGING CAREERS IN ARTIFICIAL INTELLIGENCE	5
4	USING AI FOR BETTER WORLD	3
	Total	75

Artificial Intelligence Semester I

UNIT	Name of the Chapter	No of Sessions	Marks Distribution		Objective 1 mk	Short Ans		Long Ans 4 mks
			Theory	Practicals + Term Work		2 mks	3 mks	
1	INTRODUCTION TO ARTIFICIAL INTELLIGENCE	5	4		2	1		
2	BASICS OF ARTIFICIAL INTELLIGENCE	6	4		2	1		
3	INTRODUCTION TO PYTHON	50	6	20+5		1		1
4	JUPYTER NOTEBOOK	7	2	3+2		1		
5	ARTIFICIAL INTELLIGENCE ETHICS	3	4		1		1	
Total		70	20	30	5	4	1	1
					5	8	3	4
Total								20

Semester II

UNIT	Name of the Chapter	No of Sessions	Marks Distribution		Objective 1 mk	Short Ans		Long Ans 4 mks
			Theory	Practicals + Term Work		2 mks	3 mks	
1	PYTHON PROGRAMMING	60	11	22+8	2	1	1	1
2	NEURAL NETWORK	7	3		1	1		
3	EMERGING CAREERS IN ARTIFICIAL INTELLIGENCE	5	4		2	1		
4	USING AI FOR BETTER WORLD	3	2			1		
Total		75	20	30	5	4	1	1
					5	8	3	4
Total								20