



AISSMS
INSTITUTE OF INFORMATION TECHNOLOGY
(IOIT)



ADDING VALUE TO ENGINEERING

An Autonomous Institute Affiliated to Savitribai Phule Pune University
Approved by AICTE, New Delhi and Recognised by Govt. of Maharashtra
Accredited by NAAC with "A+" Grade | NBA - 5 UG Programmes

ACADEMIC COURSE

STRUCTURE

S. Y. BTECH

ARTIFICIAL INTELLIGENCE & DATA SCIENCE

B.TECH. 4 YEAR UG COURSE

(Applicable for the batches admitted from 2022-2023)

**AISSMS INSTITUTE OF
INFORMATION TECHNOLOGY**

**Kennedy Road, Near RTO,
Pune- 411-001, Maharashtra State, India**

Email: principal@aissmsioit.org,

Website: <http://www.aissmsioit.org>

**CHAIRMAN
BOS-ARTIFICIAL INTELLIGENCE
& DATA SCIENCES**

**AISSMS IOIT (AUTONOMOUS),
PUNE-1.**

Artificial Intelligence and Data Science - Second Year (Semester –III)

Sr. No.	Course Code	Course Name	Hours per week			Credits	Examination scheme					
			Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	Total
1	IOHSM301	Democracy, Election and Governance @@	2	--	--	2	--	--	25	--	25	50
2	ADBSC302	Discrete Mathematics and Statistics	3	--	--	3	40 [#]	60*	---	--	--	100
3	ADPCC303	Software Engineering	3	--	--	3	40 [#]	60*	--	--	--	100
4	ADPCC304	Data Structure	3	--	--	3	40 [#]	60**	--	--	--	100
5	ADPCC305	Object Oriented Programing	3	--	--	3	40 [#]	60*	--	--	--	100
6	ADOEC306	MOOC- Programming in Java	3	--	--	3	40 ^{\$}	60 ^{\$\$}	---	--	--	100
7	ADPCC307	Object Oriented Programming Laboratory@@	--	--	4	2	--	--	25	50	--	75
8	ADPCC308	Data Structure Laboratory@@	--	--	4	2	--	--	25	50	--	75
9	IOHSM3AC	Audit course 3-Vedic Mathematics	1	--	--	1	--	--	25	--	--	25
Total			18	--	08	22	200	300	100	100	25	725
10	ADMNR301	Python Programming for Data Science	3	--	--	3	--	75*	--	--	--	75
11	ADMNR302	Python Programming for Data Science Laboratory	-	--	2	1	---	--	25	--	--	25
Grand Total			21	--	10	26	200	375	125	100	25	825

* End Semester Examination (ESE) based on subjective questions.

** Practical or Activity based Evaluation.

In Semester Evaluation

Insem1-Subjective

Insem-2- “GATE based MCQ” and “numerical based subjective”

Based on Presentation/Group Discussion/Laboratory Work/Course Project/Home Assignment/Comprehensive Viva Voce/Blog Writing/Case Study/Survey/Multiple-Choice Question (MCQ) examination.

\$ For MOOCs: Assignments marks will be converted on the scale of 40 marks.

\$\$ For MOOCs: Score of examination conducted by the respective authority of MOOC or Score of ESE Conducted by Institute will be converted on the scale of 60 marks.

@@ Separate passing in each of the head is mandatory to earn the specified credits.

MOOC: Programming in Java

<https://nptel.ac.in/courses/106105191>

Artificial Intelligence and Data Science - Second Year (Semester –IV)

Sr. No.	Course Code	Course Name	Hours per week			Credits	Examination scheme					
			Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	Total
1	ADHSM401	Project Management@@	2	--	--	2	--		25	--	25	50
2	ADPCC402	Artificial Intelligence	3	--	--	3	40 [#]	60*	--	--	--	100
3	ADPCC403	Database Management Systems	3	--	--	3	40 [#]	60*	--	--	--	100
4	ADPCC404	Exploratory Data Analysis	3	--	--	3	40 [#]	60**	--	--	--	100
5	ADPCC405	Operating Systems	3	--	--	3	40 [#]	60*	--	--	--	100
6	ADVSE406	Data Analytics with Python @@	1	--	4	3	--	--	50	50	--	100
7	ADPCC407	Database Management Systems Laboratory@@	--	--	4	2	--	--	25	50	---	75
8	ADPCC408	Artificial Intelligence and Data Analysis Laboratory@@	--	--	4	2	--	--	25	50	--	75
9	IOHSM4AC	Audit course - 4 Sustainable Development goals	1	--	-	1	--	--	25	--	--	25
10	IOLLC4L1	Lifelong Learning Skills-I	--	--	--	1	--	--	25	--	--	25
11	IOLLC4L2	Lifelong Learning Skills-II	--	--	--	1	--	--	25	--	--	25
Total			16	--	12	24	160	240	200	150	25	775
12	ADMNR401	Artificial Intelligence	3	--	--	3	--	75*	--	--	--	75
13	ADMNR402	Artificial Intelligence Laboratory	--	--	2	1	--	--	25	--	--	25
Grand Total			19	--	14	28	160	315	225	150	25	875

* End Semester Examination (ESE) based on subjective questions.

** Practical or Activity based Evaluation.

In Semester Evaluation

Insem1-Subjective

Insem-2- “GATE based MCQ” and “numerical based subjective”

Based on Presentation/Group Discussion/Laboratory Work/Course Project/Home Assignment/Comprehensive Viva Voce/Blog Writing/Case Study/Survey/Multiple-Choice Question (MCQ) examination.

@@ Separate passing in each of the head is mandatory to earn the specified credits.