



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

T. Y. BTECH

ARTIFICIAL INTELLIGENCE & DATA SCIENCE

B.TECH. 4 YEAR UG COURSE

(Applicable for the batches admitted from 2022-2023)

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CHAIRMAN
BOS-ARTIFICIAL INTELLIGENCE
& DATA SCIENCES
AISSMS IOIT (AUTONOMOUS),
PUNE-1.

Artificial Intelligence and Data Science - Third Year (Semester –V)

Sr. No.	Code	Course Title	Hours per week			Credits	Examination scheme					
			Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	Total
1	IOHSM501	Intellectual Property Rights@@	2	--	--	2	--	--	25	--	25	50
2	ADPCC502	Computer Networks	3	--	--	3	40 [#]	60 [*]	--	--	--	100
3	ADPCC503	Machine Learning	3	--	--	3	40 [#]	60 [*]	--	--	--	100
4	ADPCC504	Web Technology	3	--	--	3	40 [#]	60 ^{**}	--	--	--	100
5	ADPEC505	Elective-I	3	--	--	3	40 [#]	60 [*]	--	--	--	100
6	ADOEC506	MOOC Artificial Intelligence Search Method for Problem Solving	3	--	--	3	40 ^{\$}	60 ^{\$\$}	---	--	--	100
7	ADPCC507	Machine Learning Laboratory@@	--	--	4	2	--	--	25	25	---	50
8	ADPCC508	Networking and Web Laboratory@@	--	--	4	2	--	--	25	25	--	50
9	ADPEC509	EL-I Laboratory@@	--	--	2	1	--	--	25	25	--	50
10	IOHSM5ACA	Audit Course 5- Foreign Language Level-I (A: German/ B:Japanese)	1	--	--	1	--	--	25	--	--	25
	IOHSM5ACB											
Total			18	--	10	23	200	300	125	75	25	725
11	ADMNR501	Machine Learning	3	--	--	3	--	75 [*]	--	--	--	75
12	ADMNR502	Machine Learning Laboratory	--	--	2	1	--	--	25	--	--	25
Grand Total			21	--	12	27	200	375	150	75	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.

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

Elective-I

- A. Design and Analysis of Algorithm
- B. Data Analytics using Power BI and Tableau
- C. Distributed Systems

MOOC: Artificial Intelligence Search Methods for Problem Solving

<https://nptel.ac.in/courses/10610622>

Artificial Intelligence and Data Science - Third Year (Semester –VI)

Sr. No.	Code	Course Title	Hours per week			Credits	Examination scheme					
			Lecture	Tutorial	Practical		ISE	ESE	TW	PR	OR	Total
1	IOHSM601	Seminar and Technical Paper Writing	1	--	2	2	--	--	50	--	---	50
2	ADPCC602	Deep learning	3	--	--	3	40 [#]	60*	--	--	--	100
3	ADPCC603	Cloud Computing	3	--	--	3	40 [#]	60*	--	--	--	100
4	ADPCC604	ML Ops	3	--	--	3	40 [#]	60**	--	--	--	100
5	ADPEC605	Elective-II	3	--	--	3	40 [#]	60*	--	--	--	100
6	ADVSE606	Pattern Recognition and Applications@@	1	--	4	3	--	--	50	50	--	100
7	ADPCC607	Deep Learning and ML Ops Laboratory@@	--	--	4	2	--	--	25	50	---	75
8	ADPCC608	Cloud Computing Laboratory@@	--	--	4	2	--	--	25	25	--	50
9	ADPEC609	EL-II Laboratory	--	--	2	1	--	--	--	25	--	25
10	IOHSM6AC	Audit Course Foreign Language Level-II (German/ Japanese)	1	--	--	1	--	--	25	--	--	25
11	IOLLC6L3	Lifelong Learning Skills-III	--	--	--	1	--	--	25	--	--	25
12	IOLLC6L4	Lifelong Learning Skills-IV	--	--	--	1	--	--	25	--	--	25
Total			15	--	16	25	160	240	225	150	--	775
14	ADMNR601	Deep Learning	3	--	--	3	--	75*	--	--	--	75
15	ADMNR602	Deep Learning Laboratory	--	--	2	1	--	--	25	--	--	25
Grand Total			18	--	18	19	160	315	250	150	--	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.

Elective-II
 A. Natural Language Processing
 B. High Performance Computing
 C. Intelligent Robotics Process Automation